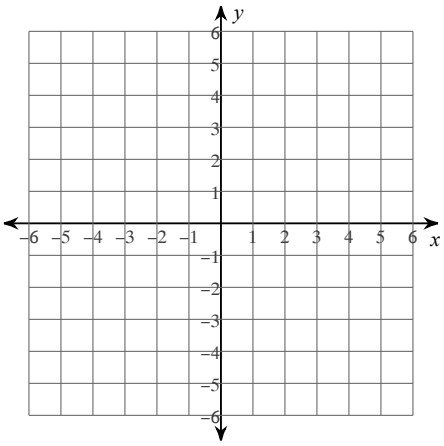
Algebra 2 Name_____ ID: 1

Assignment

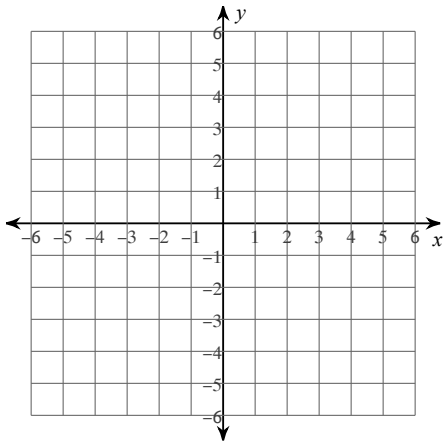
Date_____ Period____

Graph each equation.

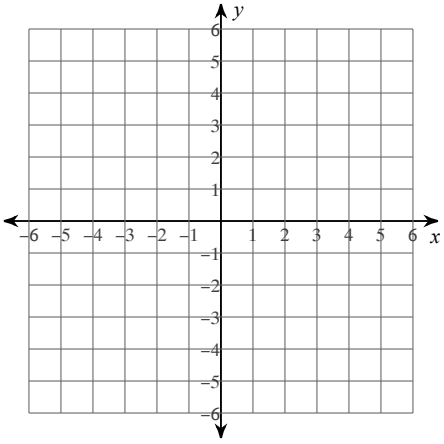
1) $y = -\left|2x + 1\right| - 4$



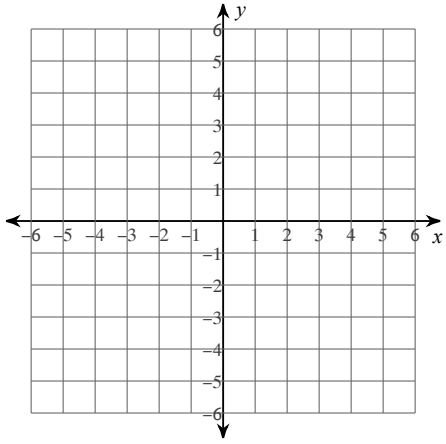
2) $y = -\left|-3x + 4\right|$



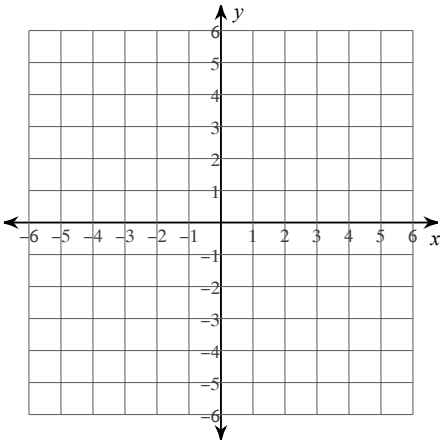
3) $y = -\left|-2x - 4\right| + 4$



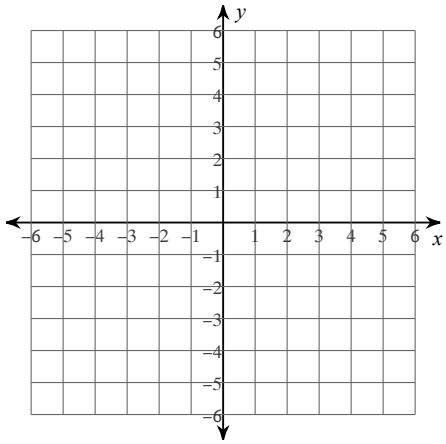
4) $y = -\left|-2x + 4\right| - 1$



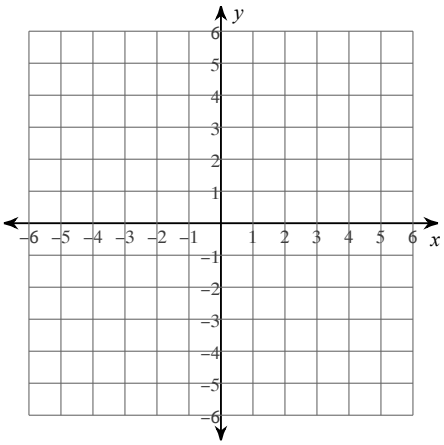
5) $y = \left|2x\right| + 1$



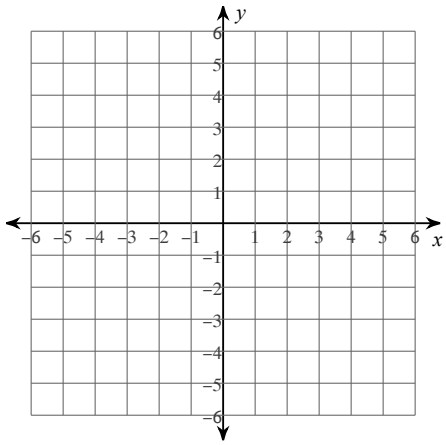
6) $y = -\left|-3x - 3\right| - 3$



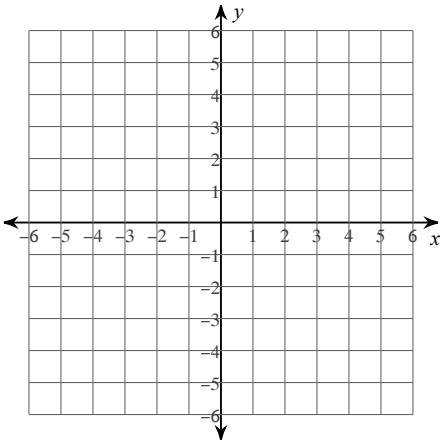
7) $y = -\left|-2x + 4\right|$



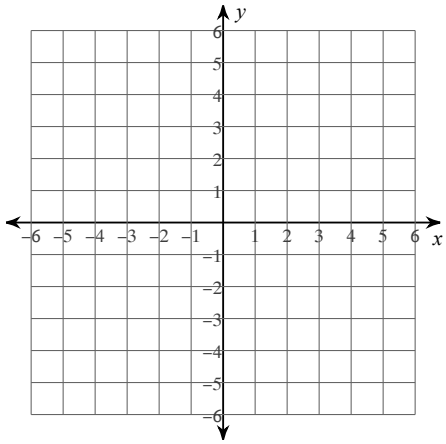
8) $y = \left|3x - 3\right| + 4$



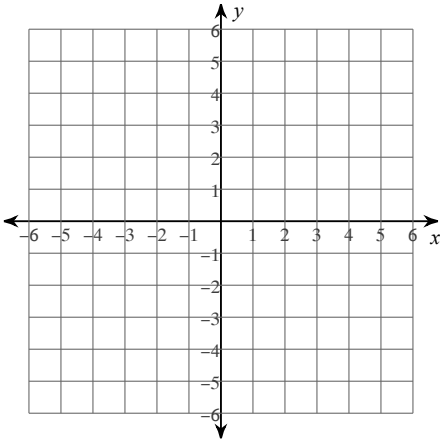
9) $y = \left|3x - 2\right| - 4$



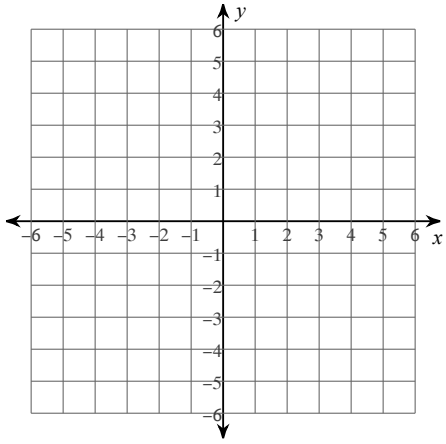
10) $y = \left|-2x\right| + 4$



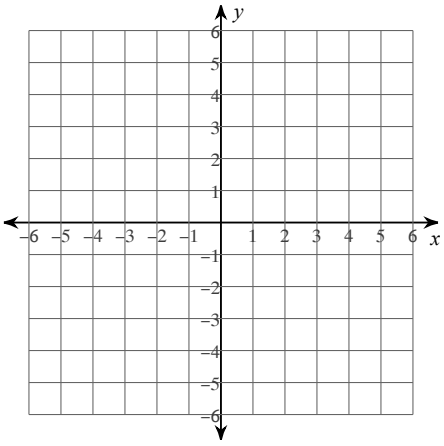
11) $y = \left|2x\right| + 3$



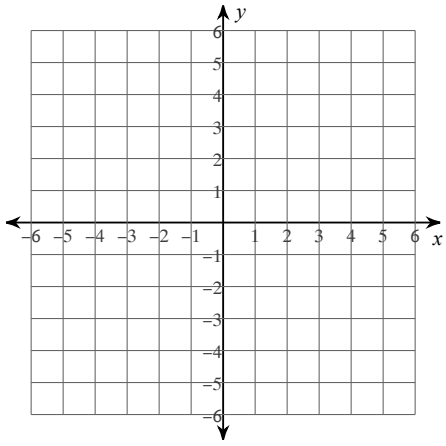
12) $y = -\left|3x - 3\right| - 4$



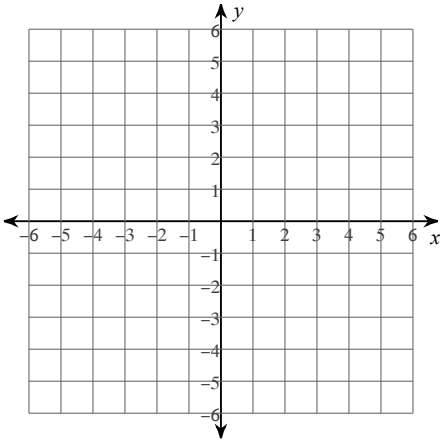
13) $y = -\left|3x - 2\right| - 4$



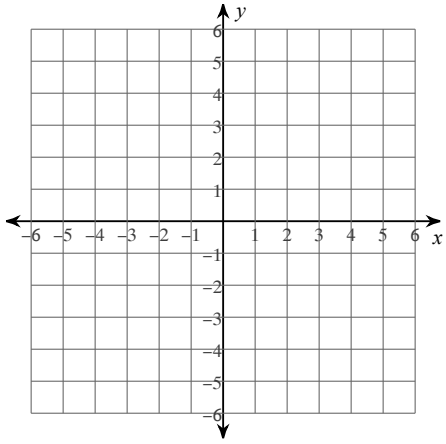
14) $y = \left|2x - 4\right| - 3$



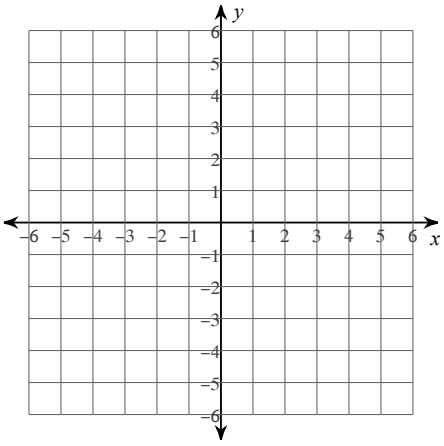
15) $y = -\left|3x\right| + 2$



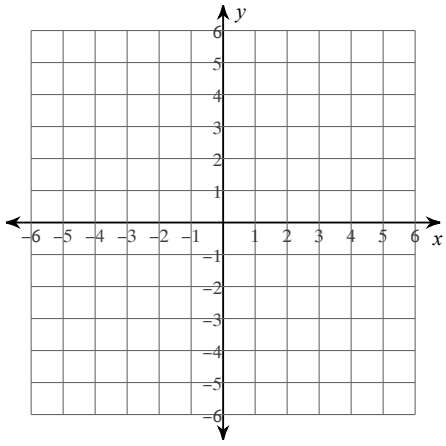
16) $y = -\left|3x + 3\right| - 2$



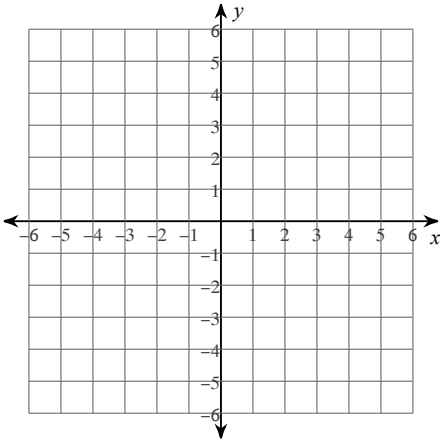
17) $y = \left|-2x\right| + 2$



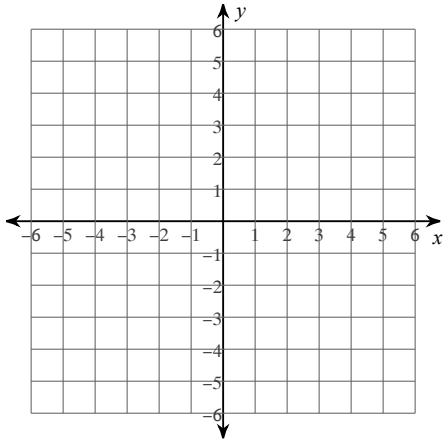
18) $y = \left|2x + 3\right| - 2$



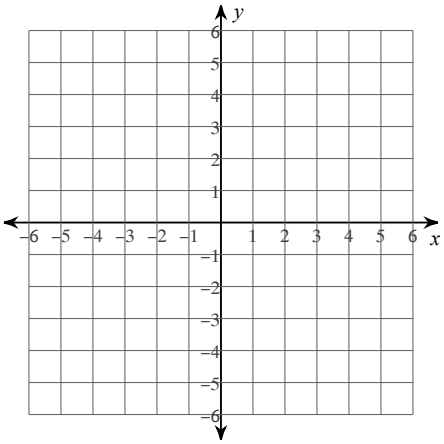
19) $y = \left|2x + 4\right|$



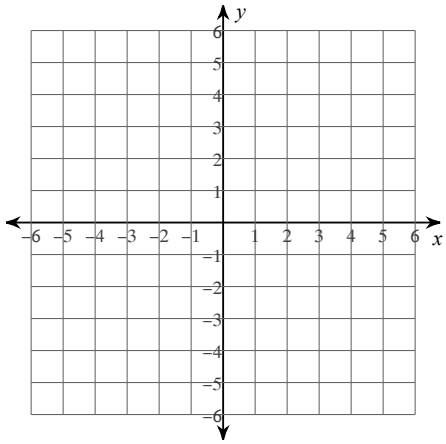
20) $y = \left|2x + 3\right| + 2$



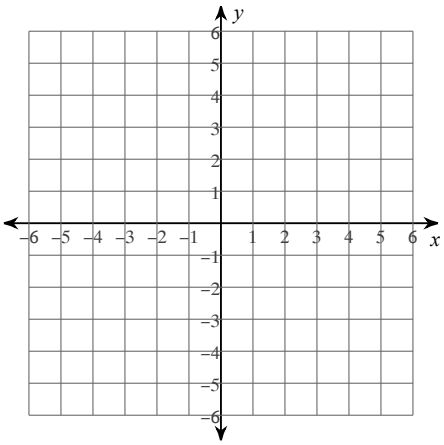
21) $y = \left|3x + 1\right| - 4$



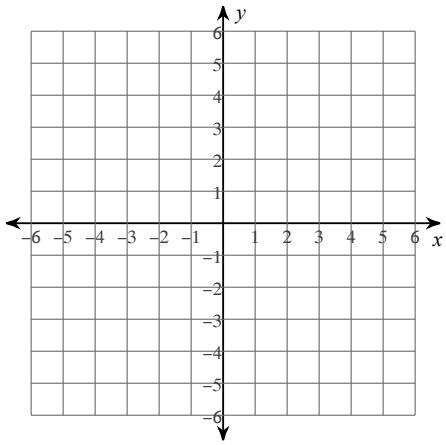
22) $y = \left|-2x + 2\right| - 3$



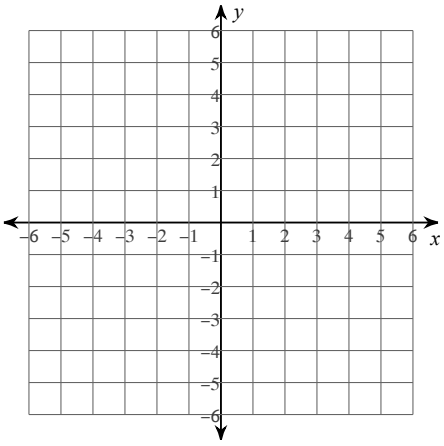
23) $y = -\left|-2x + 1\right| + 2$



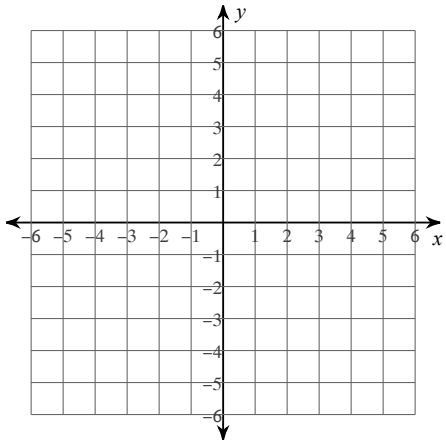
24) $y = \left|3x - 1\right| - 1$



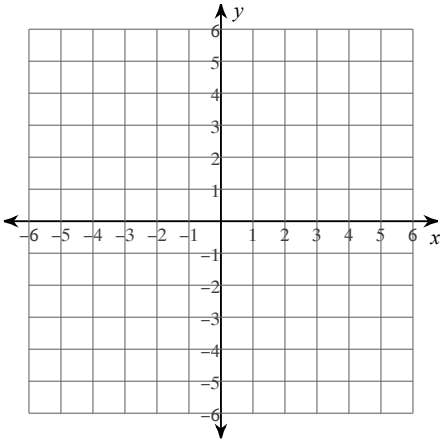
25) $y = -\left|3x + 1\right| - 2$



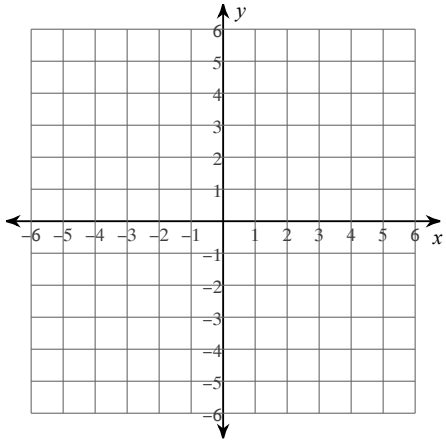
26) $y = \left|2x + 3\right| + 4$



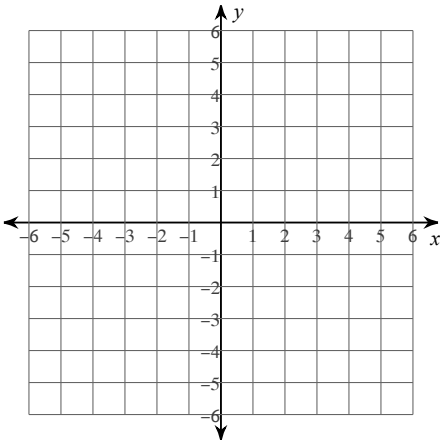
27) $y = \left|-3x + 4\right| + 1$



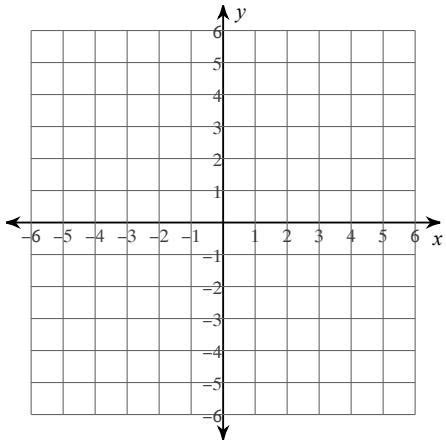
28) $y = -\left|-2x + 2\right|$



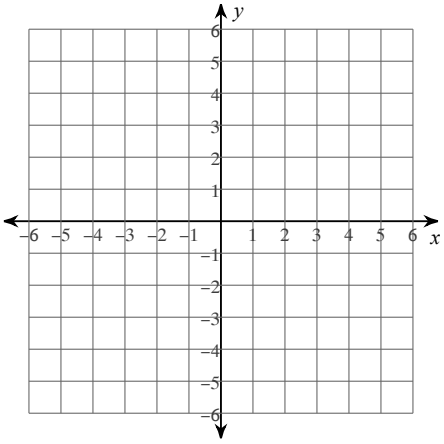
29) $y = \left|3x\right| - 2$



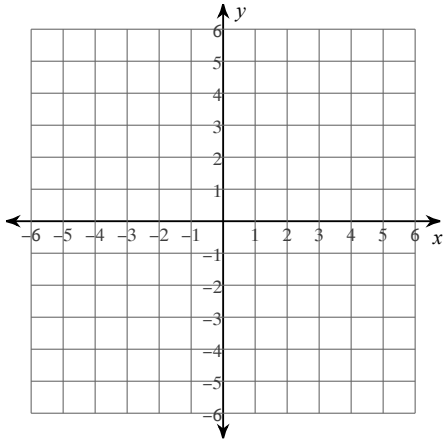
30) $y = \left|-2x\right| - 4$



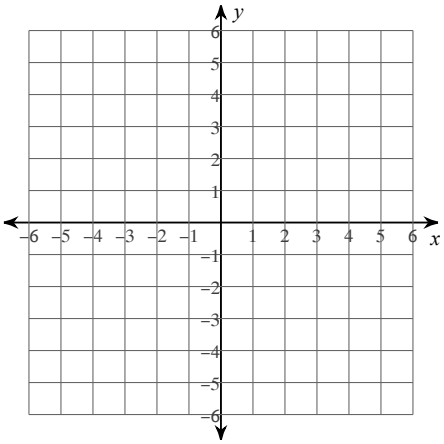
31) $y = \left|3x\right| - 3$



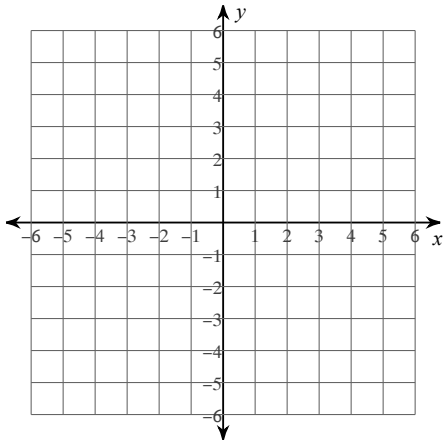
32) $y = -\left|-2x - 1\right| - 3$



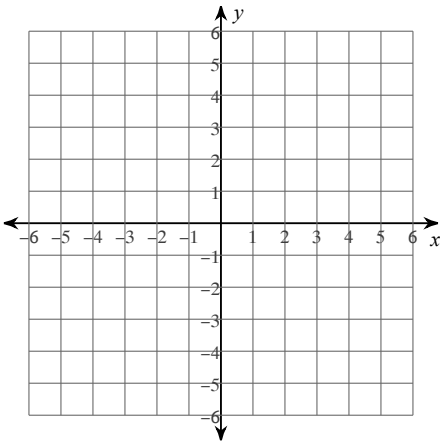
33) $y = -\left|3x - 1\right| + 2$



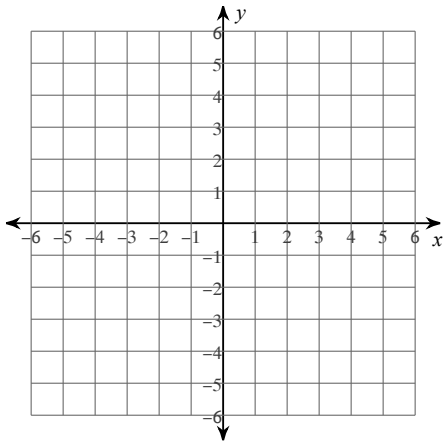
34) $y = \left|3x - 3\right|$



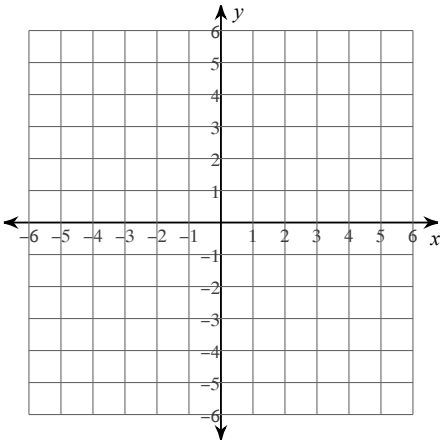
35) $y = -\left|-3x - 2\right| - 2$



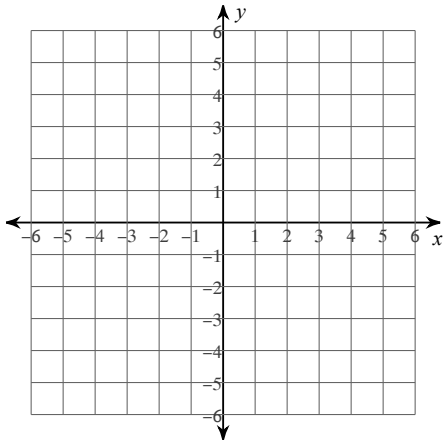
36) $y = -\left|-3x - 1\right|$



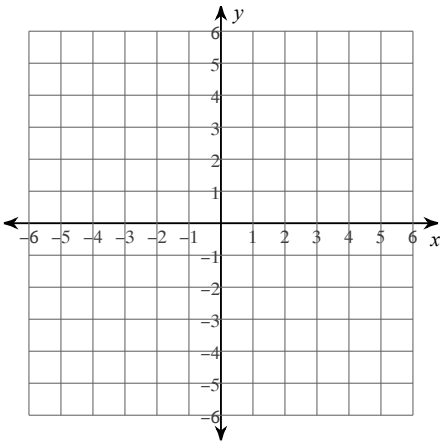
37) $y = -\left|3x + 3\right|$



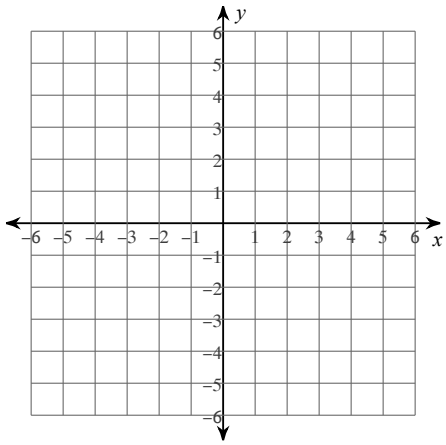
38) $y = -\left|2x - 3\right| - 4$



39) $y = \left|-3x - 4\right|$

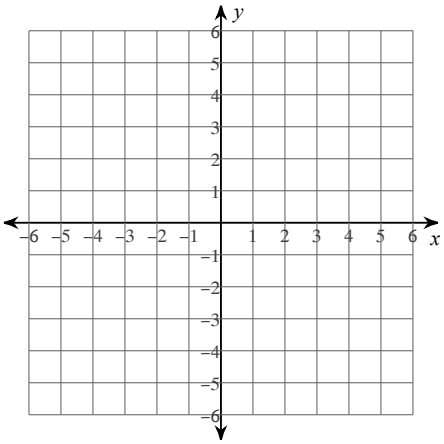


40) $y = -\left|3x - 3\right| + 4$

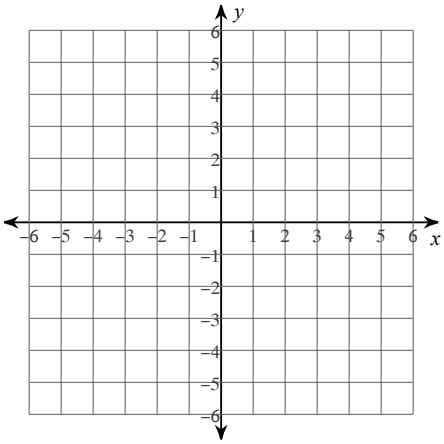


Sketch the graph of each linear inequality.

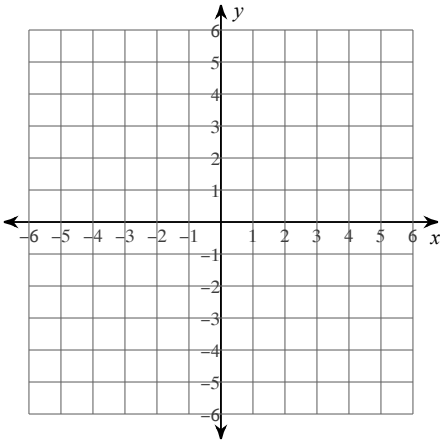
41) $y > -2x + 1$



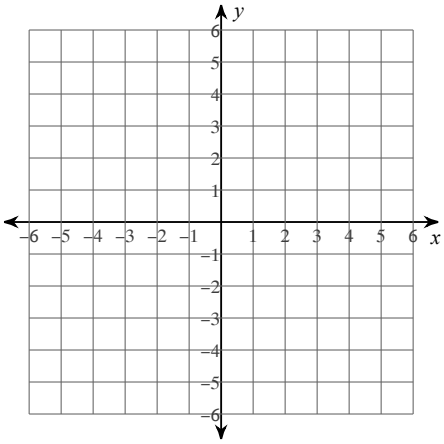
42) $y \geq -\frac{9}{5}x + 5$



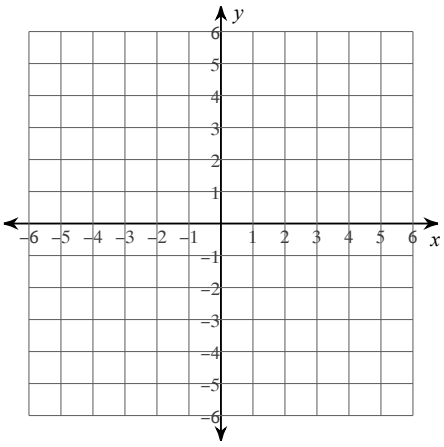
43) $y \leq 10x - 5$



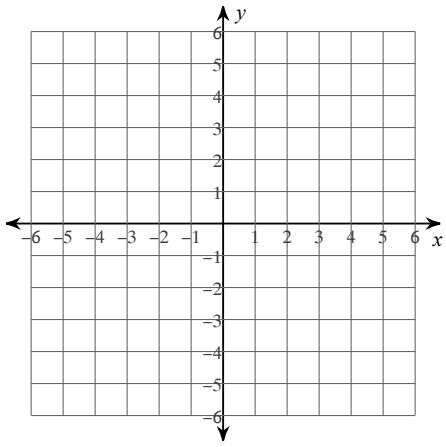
44) $y \leq -x + 5$



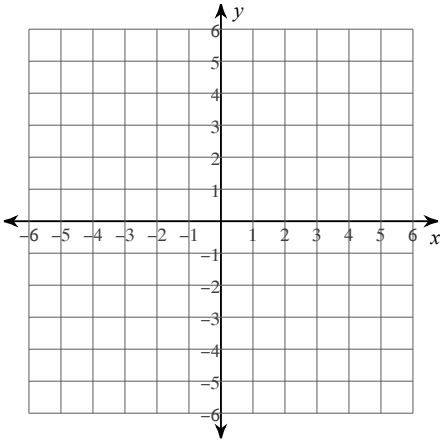
45) $y > -4x - 1$



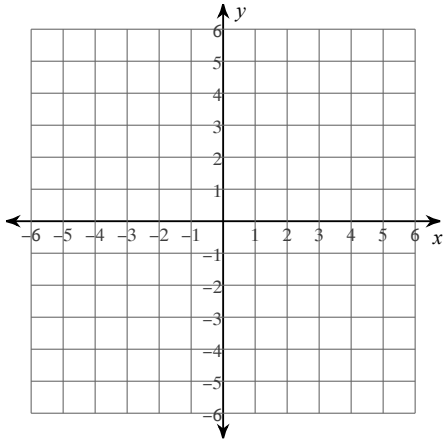
46) $y < 2x + 2$



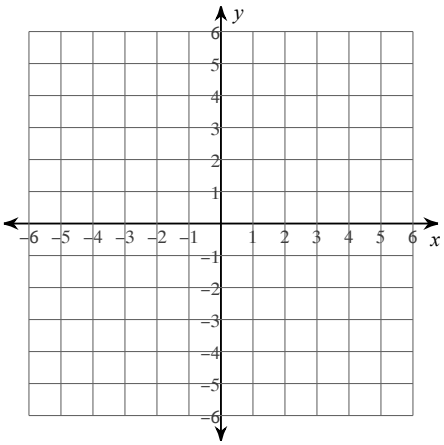
47) $y > -10x - 5$



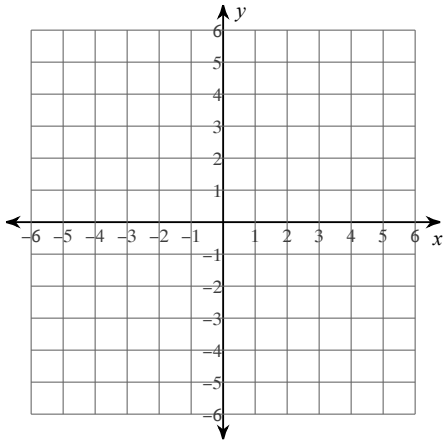
48) $y \geq -4x + 4$



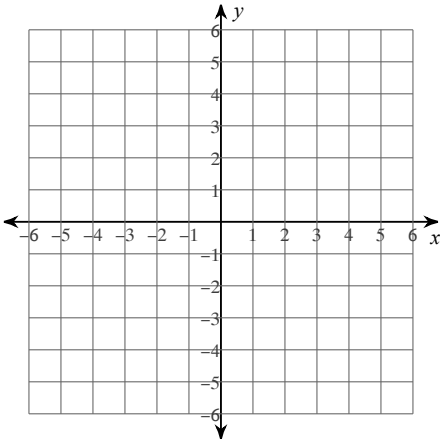
49) $y \geq 2x - 2$



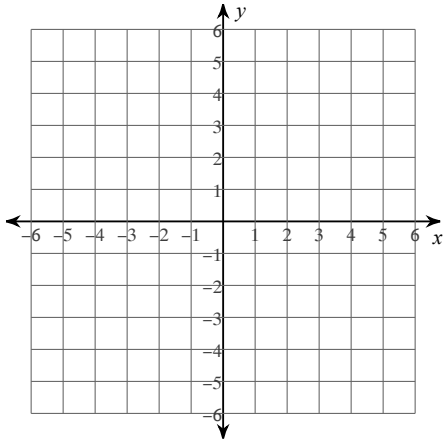
50) $y < -\frac{4}{5}x + 2$



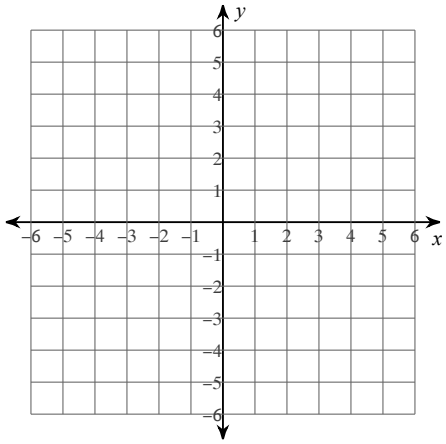
51) $y > 3x - 2$



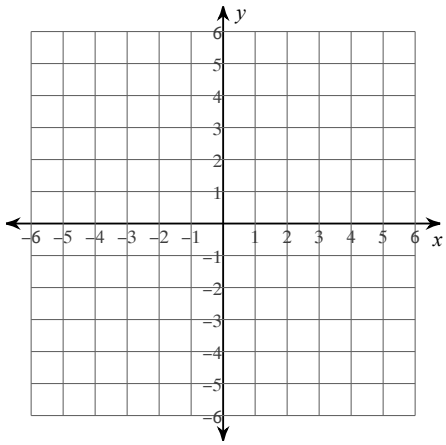
52) $y > -\frac{1}{2}x + 2$



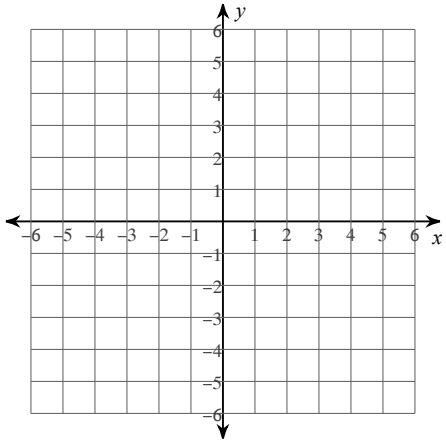
53) $y > -\frac{5}{3}x - 4$



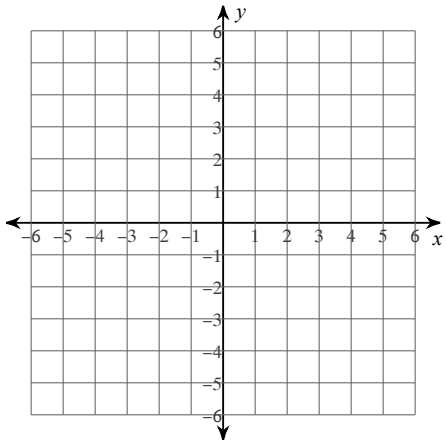
54) $y \geq 5x$



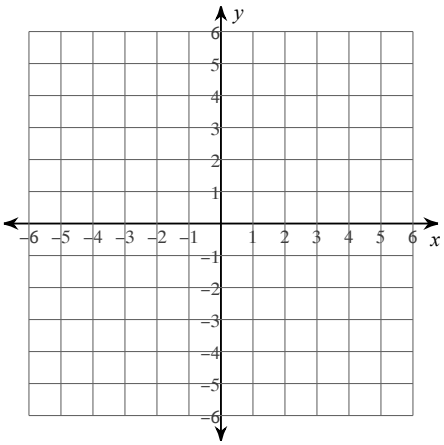
55) $y \leq -\frac{1}{4}x + 2$



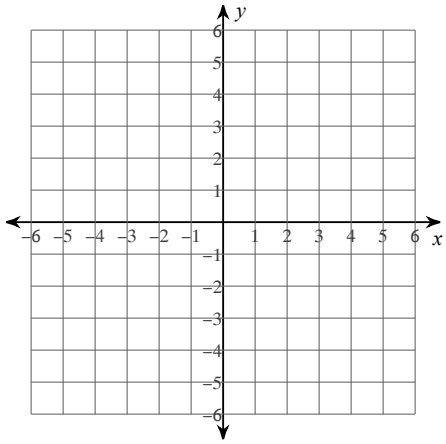
56) $y < -3$



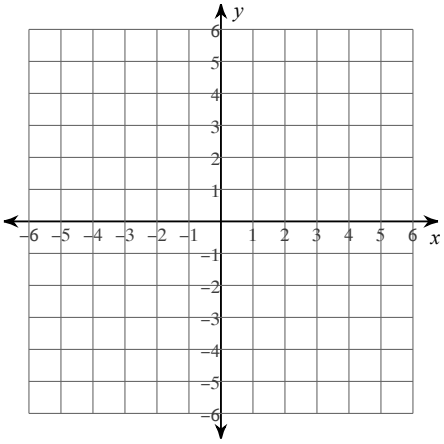
57) $y \geq x$



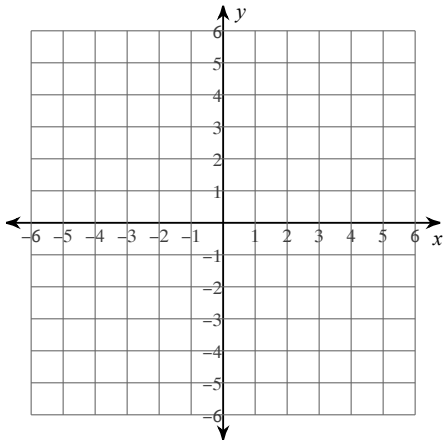
58) $y \geq -\frac{5}{3}x - 5$



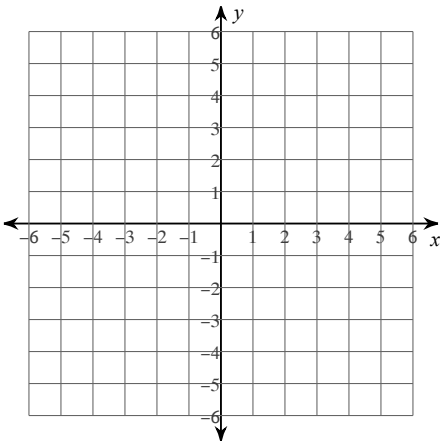
59) $y > -\frac{9}{5}x - 5$



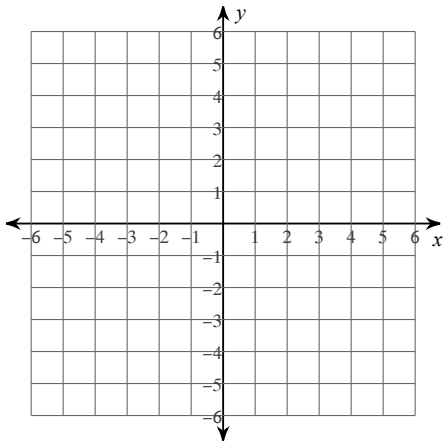
60) $y > x$



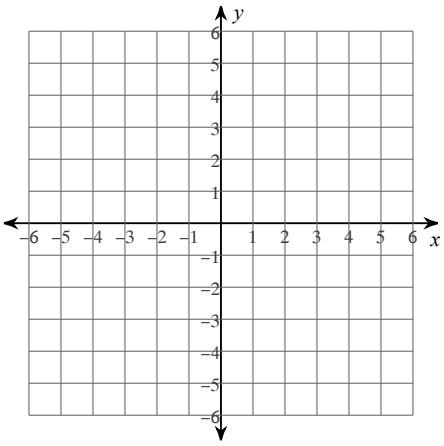
61) $3x + 2y < -2$



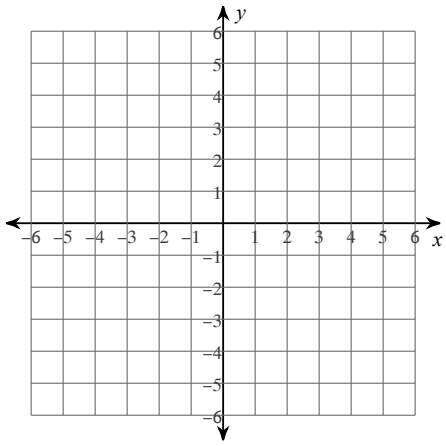
62) $5x - 2y \geq 8$



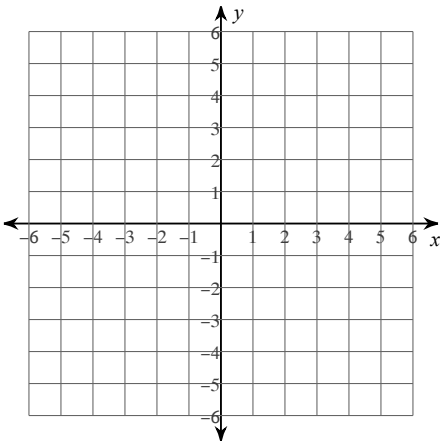
63) $x - y < -1$



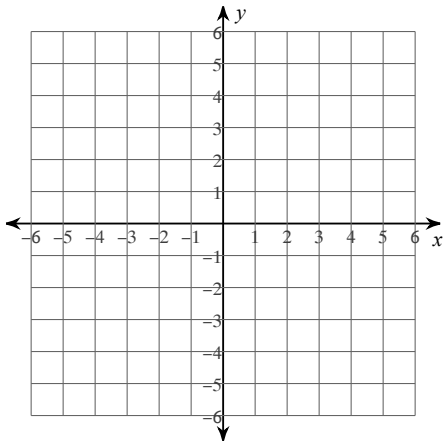
64) $5x - 4y \leq 20$



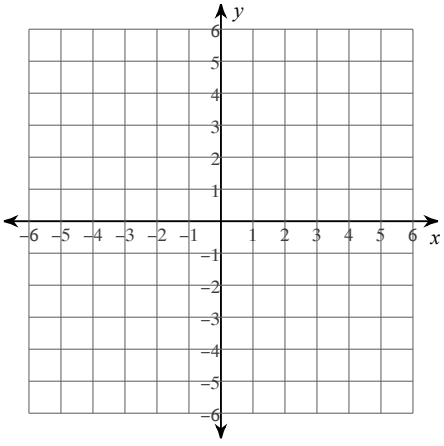
65) $9x + 2y < 10$



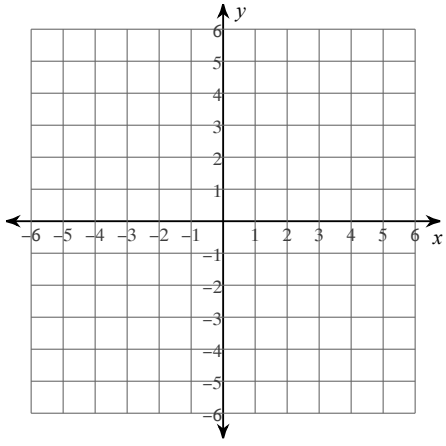
66) $x \geq -4$



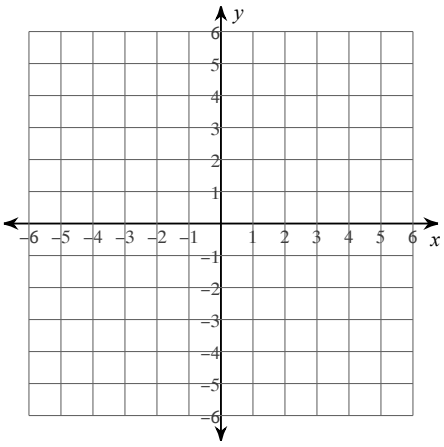
67) $x - y < -2$



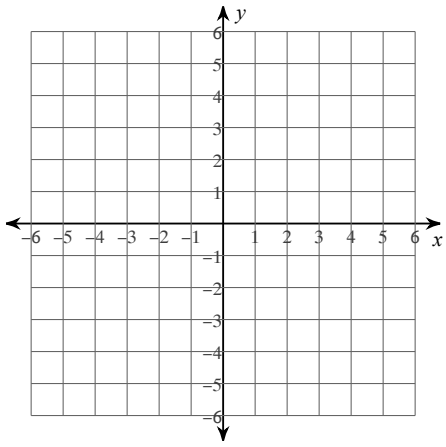
68) $3x - 5y > 15$



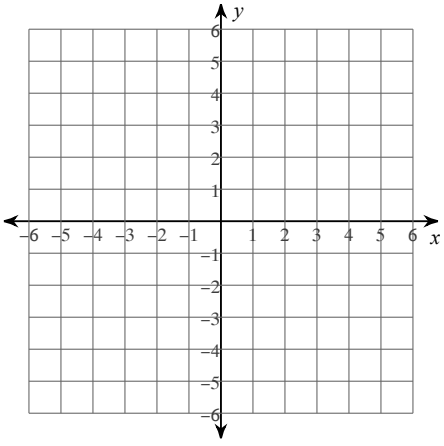
69) $x - 4y < -8$



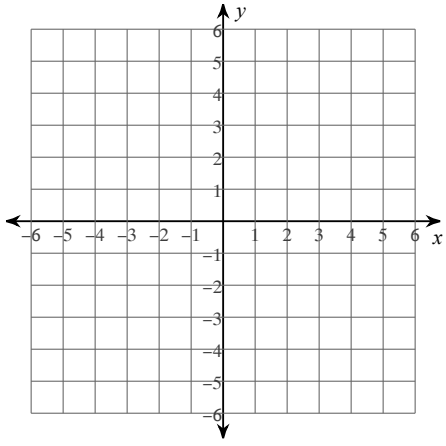
70) $x - 2y > -6$



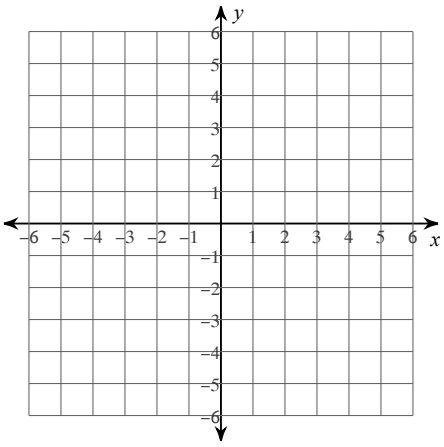
71) $3x - 2y < 0$



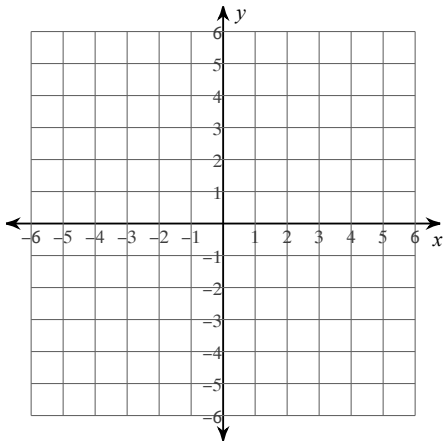
72) $y \geq -2$



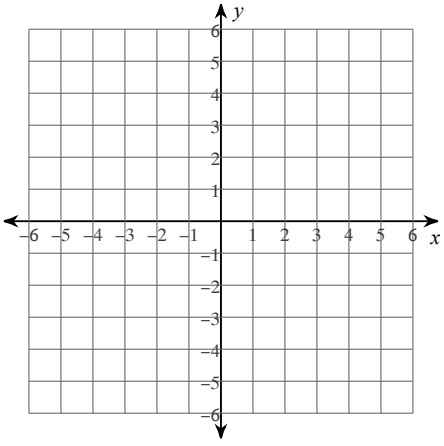
73) $y \geq 1$



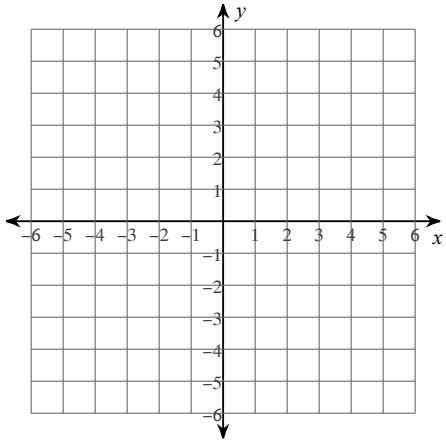
74) $x + 2y > 0$



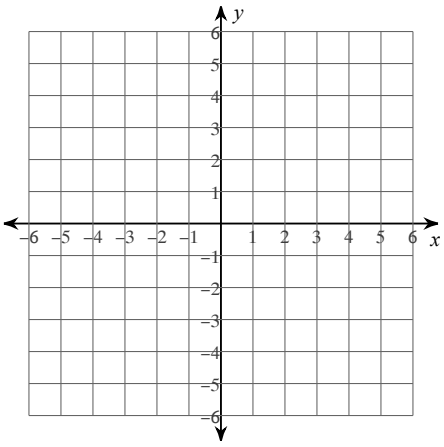
75) $3x - 5y \geq 5$



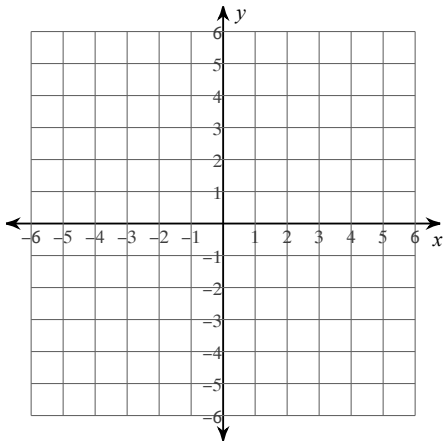
76) $x - y \geq 2$



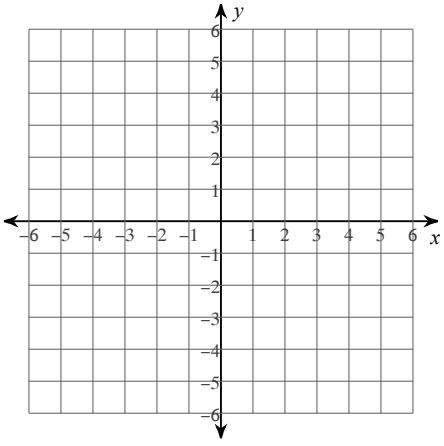
77) $x - y \geq 1$



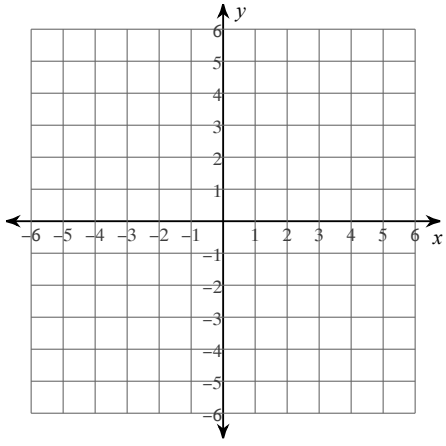
78) $5x - 2y < 8$



79) $2x + y > 4$



80) $7x + 3y > 9$



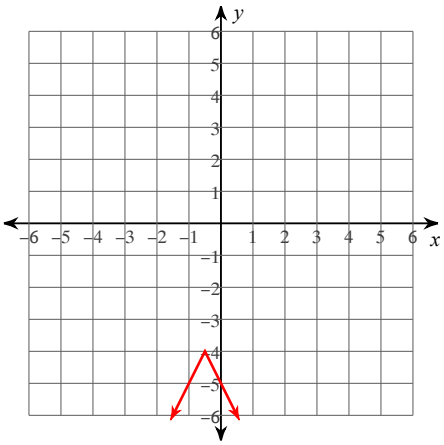
Algebra 2 Name_____ ID: 1

Assignment

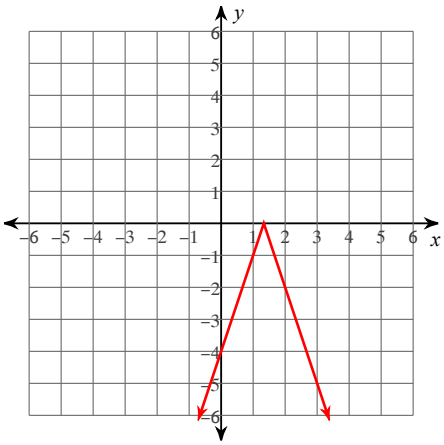
Date_____ Period____

Graph each equation.

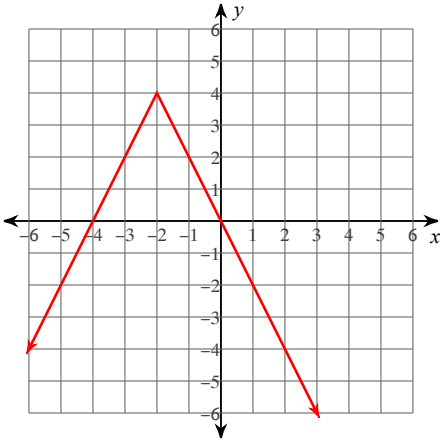
1) $y = -\left|2x + 1\right| - 4$



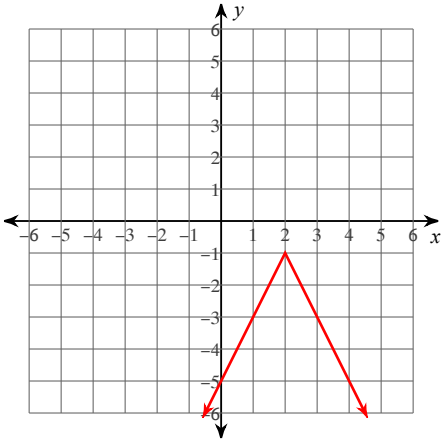
2) $y = -\left|-3x + 4\right|$



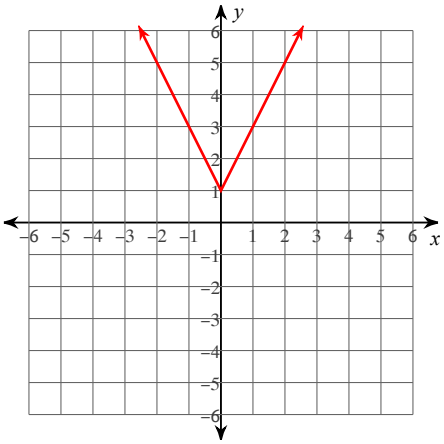
3) $y = -\left|-2x - 4\right| + 4$



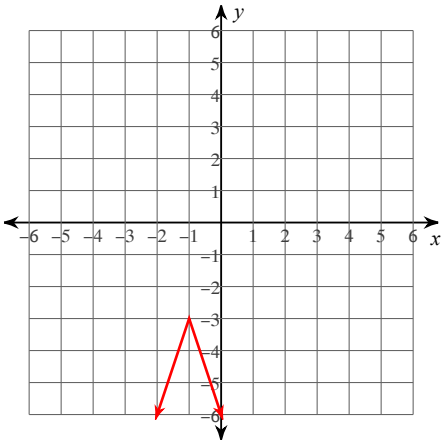
4) $y = -\left|-2x + 4\right| - 1$



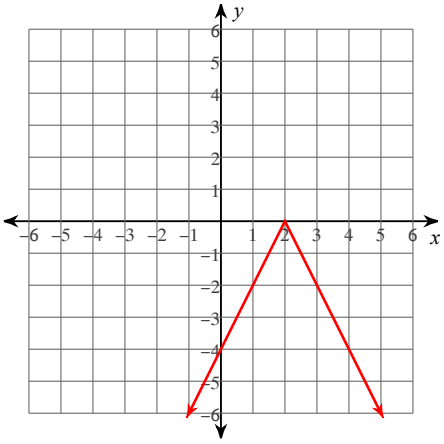
5) $y = \left|2x\right| + 1$



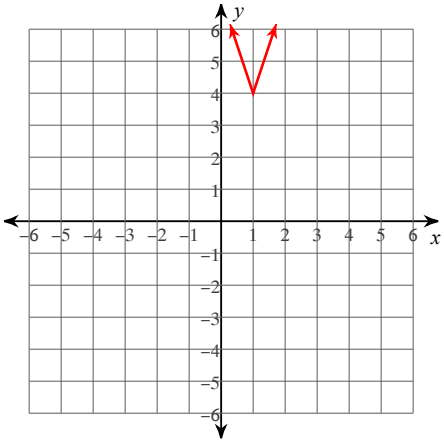
6) $y = -\left|-3x - 3\right| - 3$



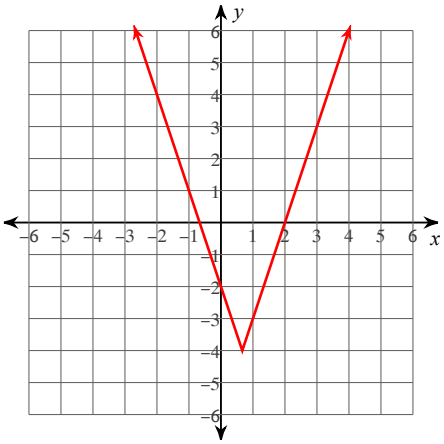
7) $y = -\left|-2x + 4\right|$



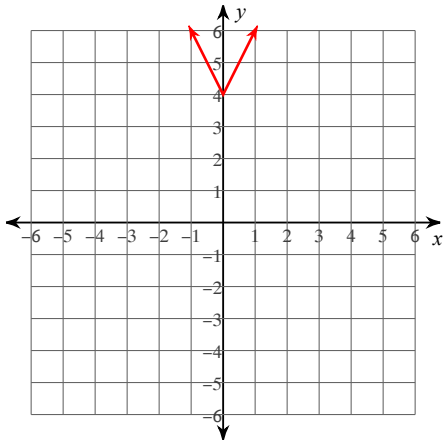
8) $y = \left|3x - 3\right| + 4$



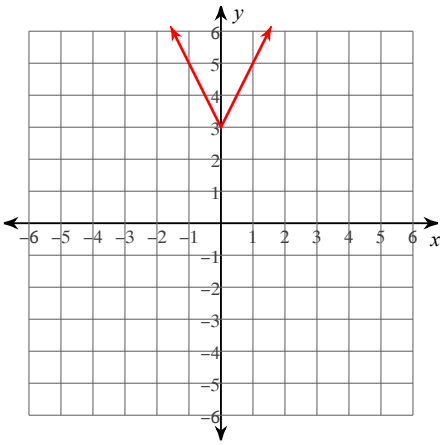
9) $y = |3x - 2| - 4$



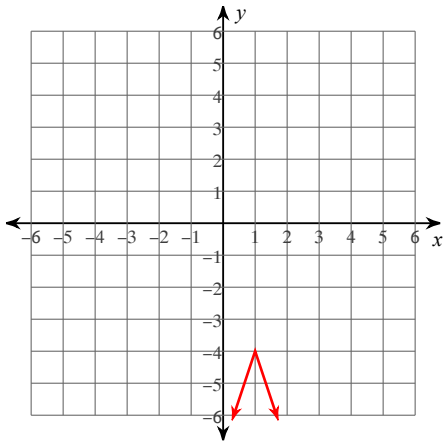
10) $y = |-2x| + 4$



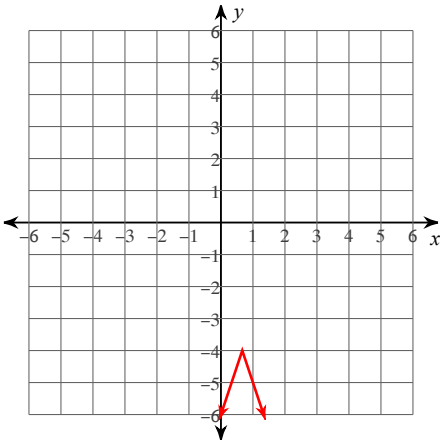
11) $y = |2x| + 3$



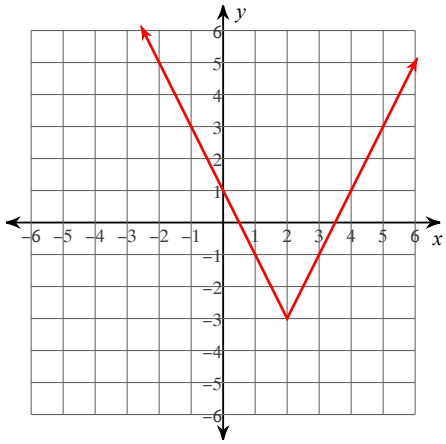
12) $y = -|3x - 3| - 4$



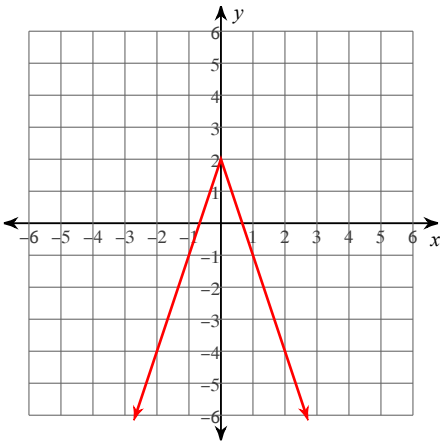
13) $y = -\left|3x - 2\right| - 4$



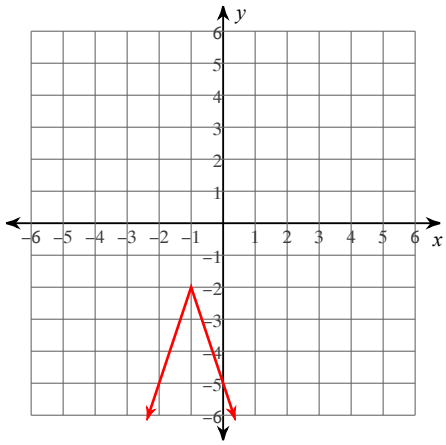
14) $y = \left|2x - 4\right| - 3$



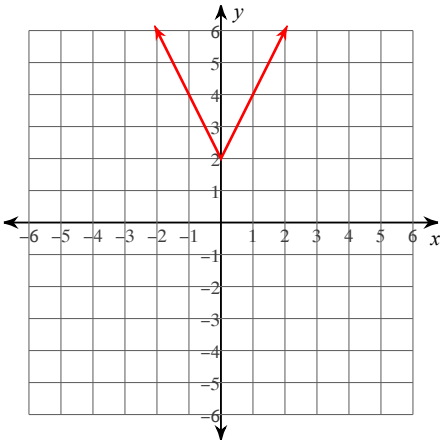
15) $y = -\left|3x\right| + 2$



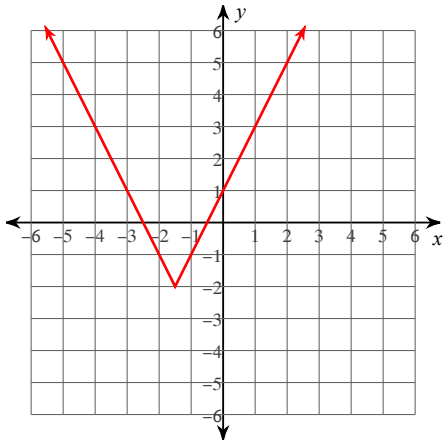
16) $y = -\left|3x + 3\right| - 2$



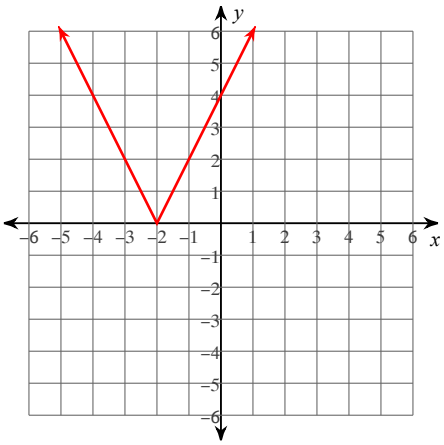
17) $y = \left|-2x\right| + 2$



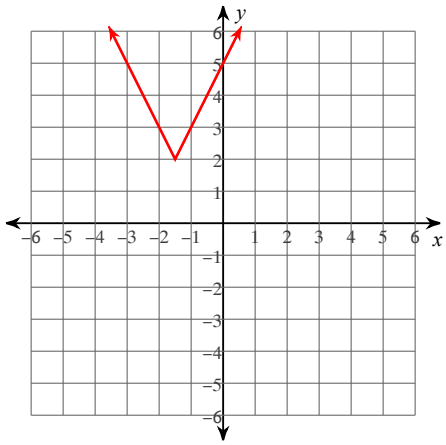
18) $y = \left|2x + 3\right| - 2$



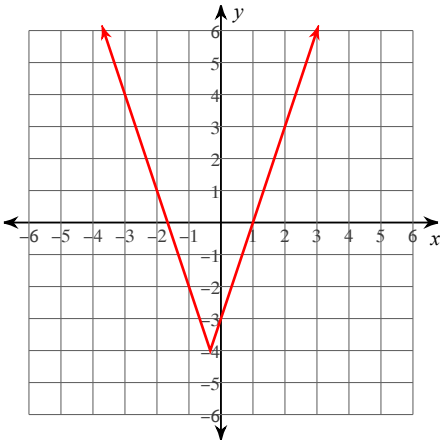
19) $y = \left|2x + 4\right|$



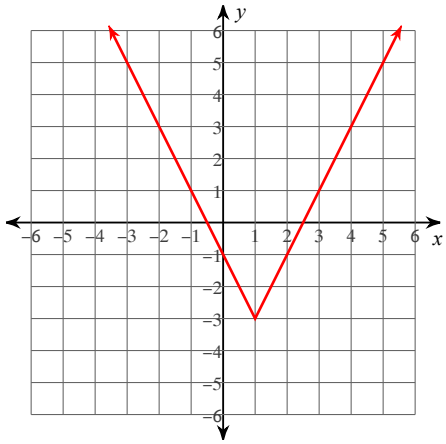
20) $y = \left|2x + 3\right| + 2$



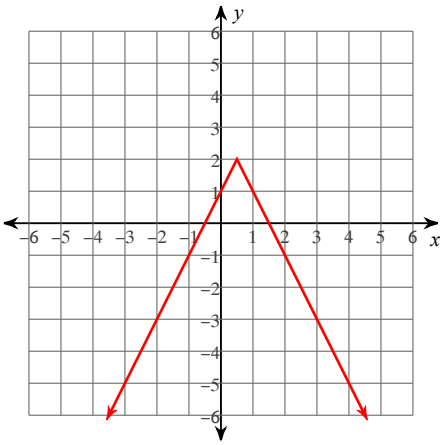
21) $y = \left|3x + 1\right| - 4$



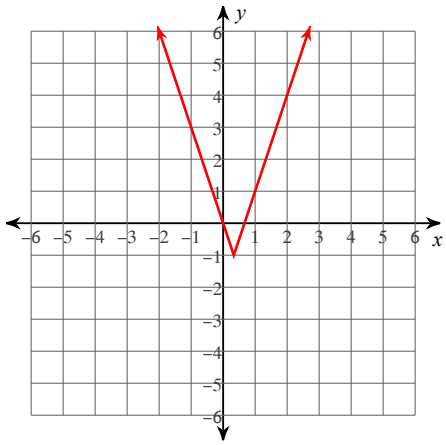
22) $y = \left|-2x + 2\right| - 3$



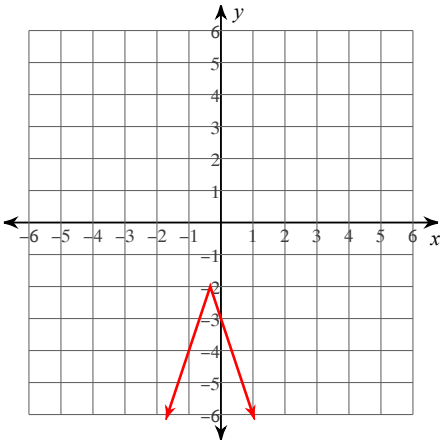
23) $y = -\left|-2x + 1\right| + 2$



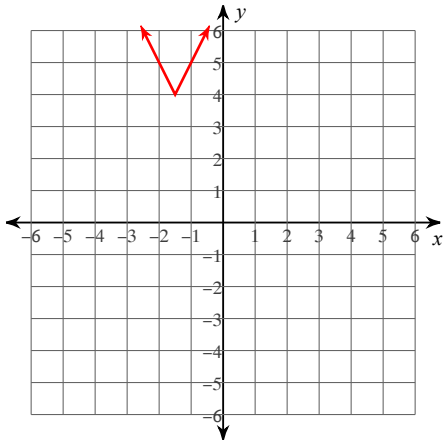
24) $y = \left|3x - 1\right| - 1$



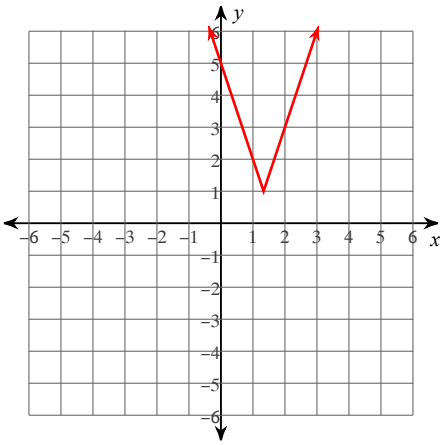
25) $y = -\left|3x + 1\right| - 2$



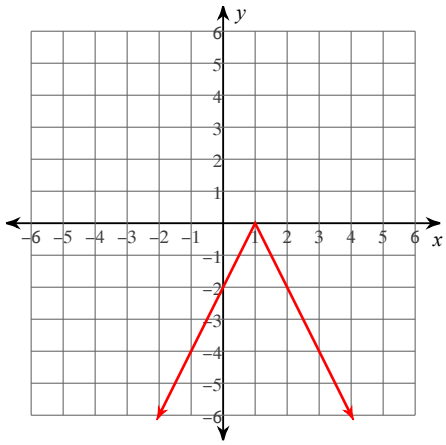
26) $y = \left|2x + 3\right| + 4$



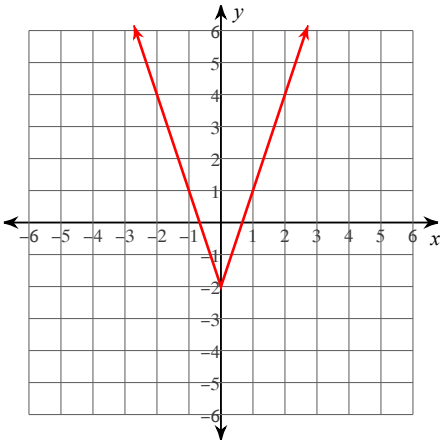
27) $y = \left|-3x + 4\right| + 1$



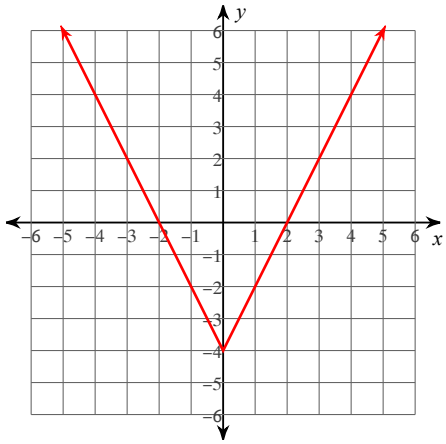
28) $y = -\left|-2x + 2\right|$



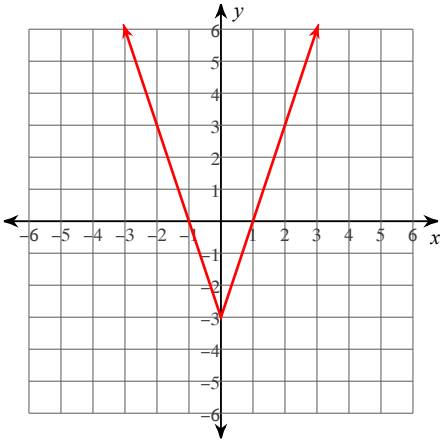
29) $y = |3x| - 2$



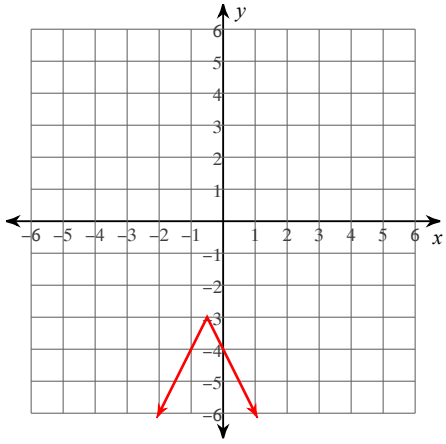
30) $y = |-2x| - 4$



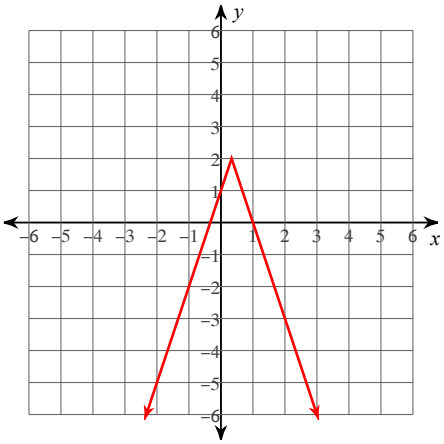
31) $y = |3x| - 3$



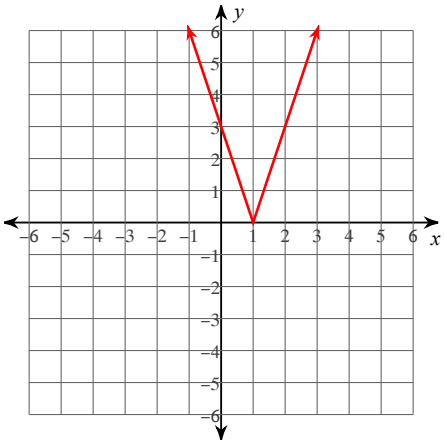
32) $y = -|-2x - 1| - 3$



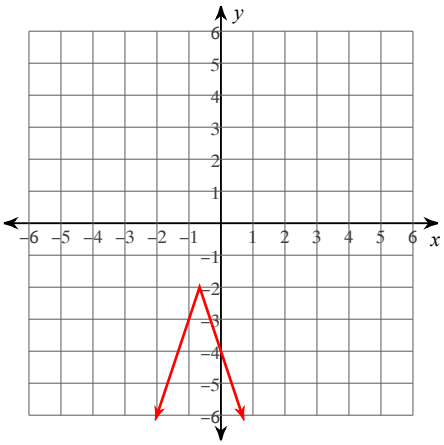
33) $y = -\left|3x - 1\right| + 2$



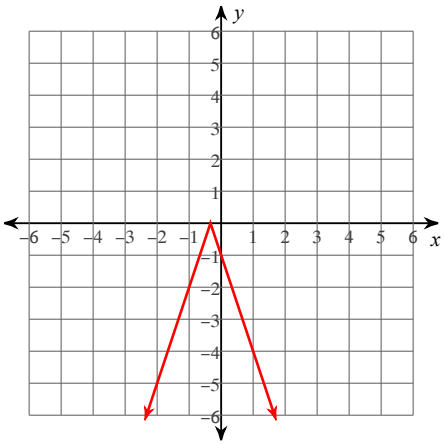
34) $y = \left|3x - 3\right|$



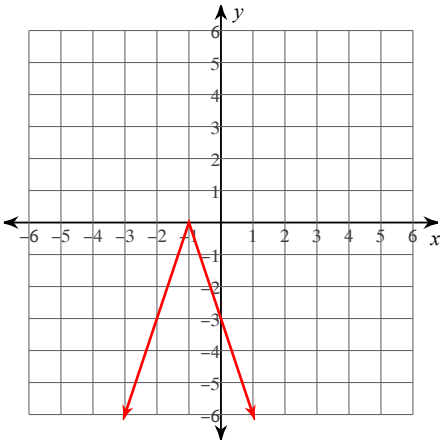
35) $y = -\left|-3x - 2\right| - 2$



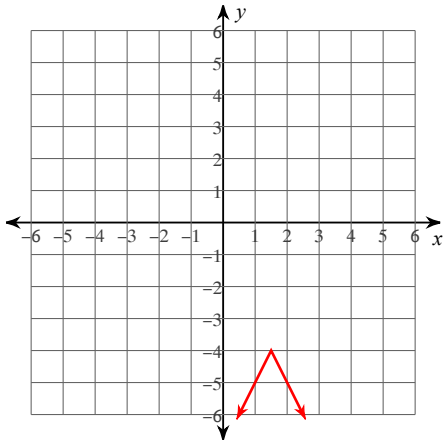
36) $y = -\left|-3x - 1\right|$



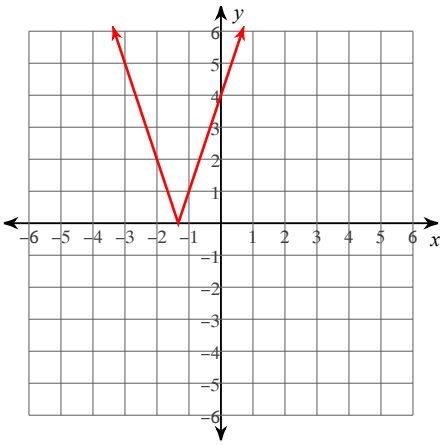
37) $y = -\left|3x + 3\right|$



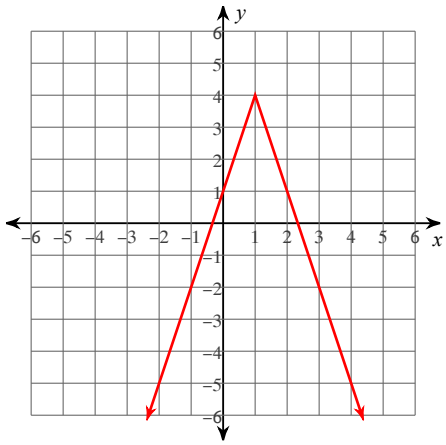
38) $y = -\left|2x - 3\right| - 4$



39) $y = \left|-3x - 4\right|$

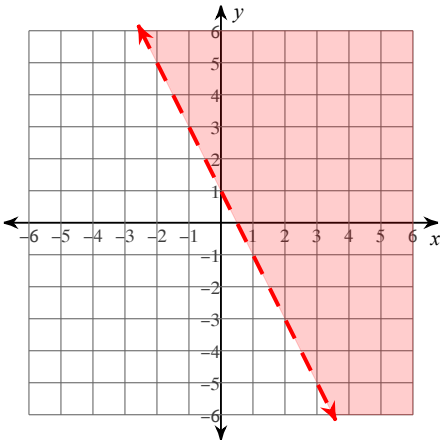


40) $y = -\left|3x - 3\right| + 4$

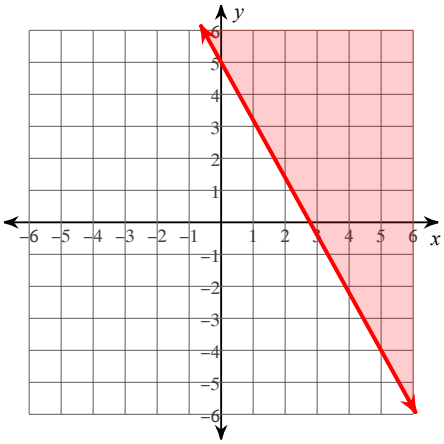


Sketch the graph of each linear inequality.

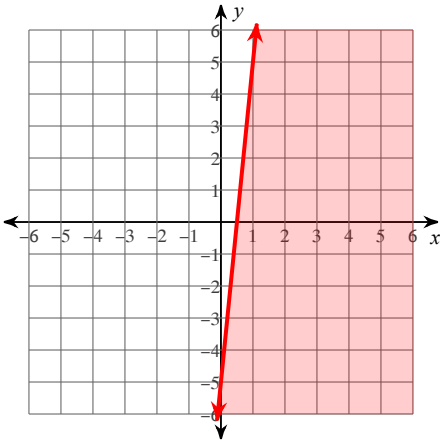
41) $y > -2x + 1$



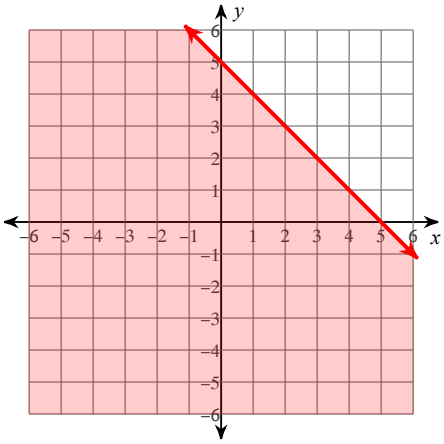
42) $y \geq -\frac{9}{5}x + 5$



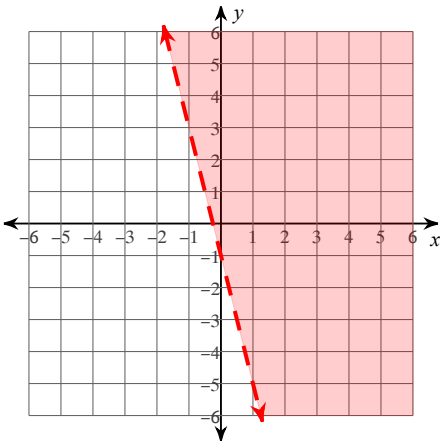
43) $y \leq 10x - 5$



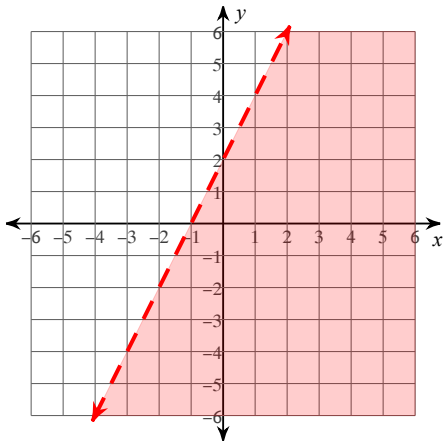
44) $y \leq -x + 5$



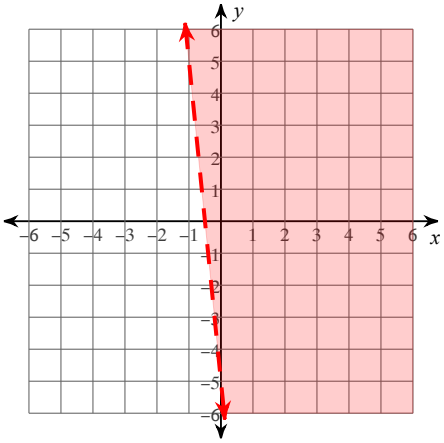
45) $y > -4x - 1$



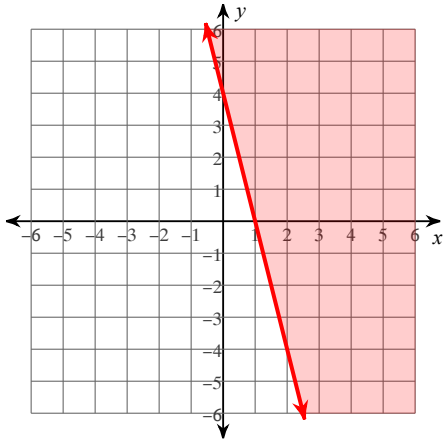
46) $y < 2x + 2$



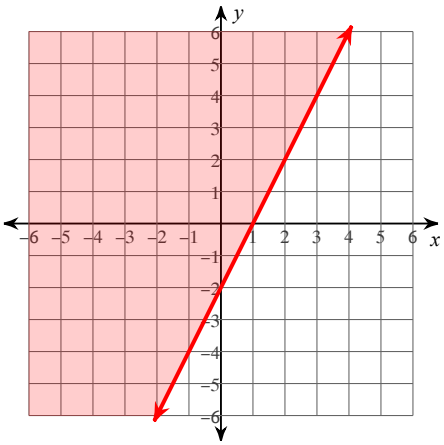
47) $y > -10x - 5$



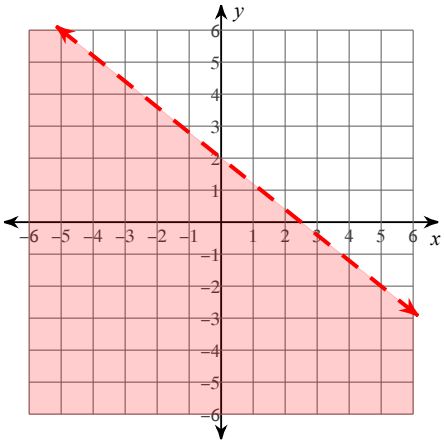
48) $y \geq -4x + 4$



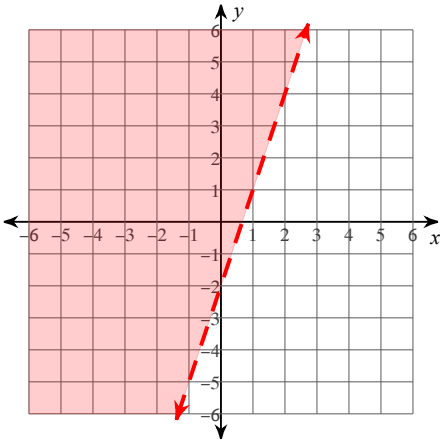
49) $y \geq 2x - 2$



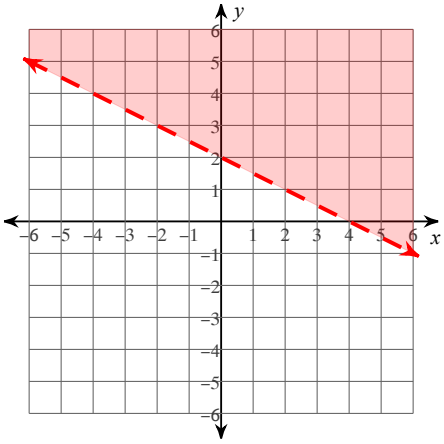
50) $y < -\frac{4}{5}x + 2$



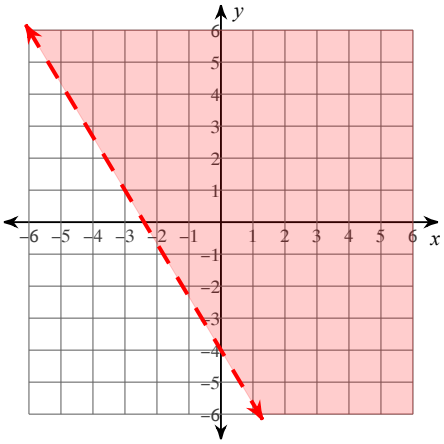
51) $y > 3x - 2$



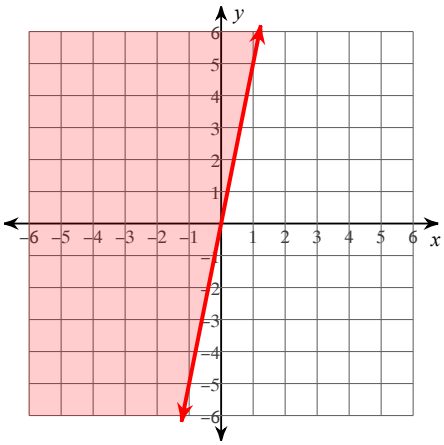
52) $y > -\frac{1}{2}x + 2$



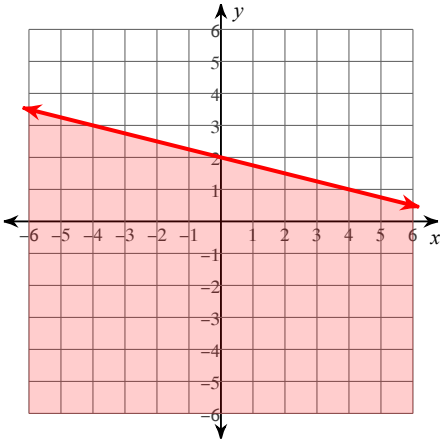
53) $y > -\frac{5}{3}x - 4$



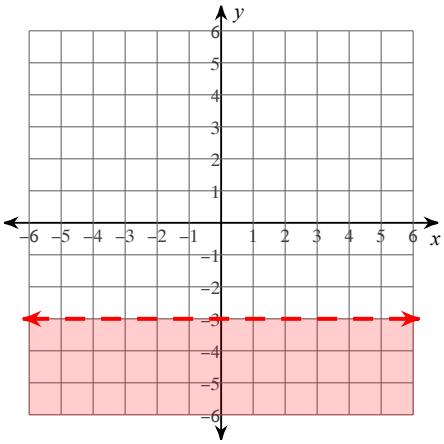
54) $y \geq 5x$



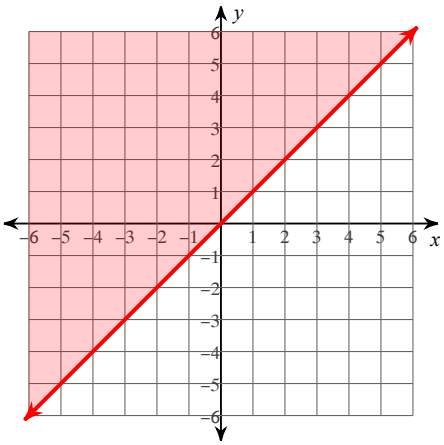
55) $y \leq -\frac{1}{4}x + 2$



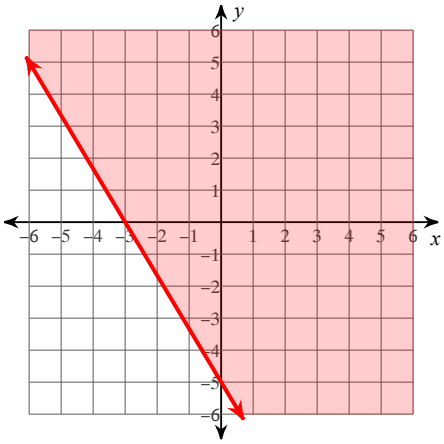
56) $y < -3$



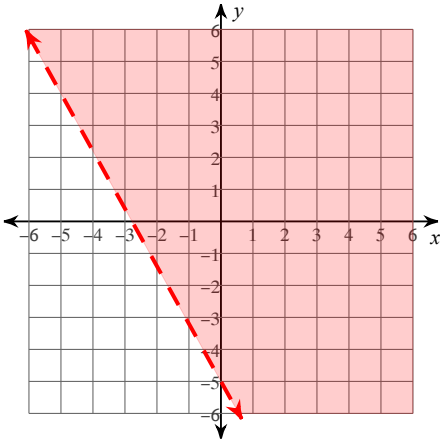
57) $y \geq x$



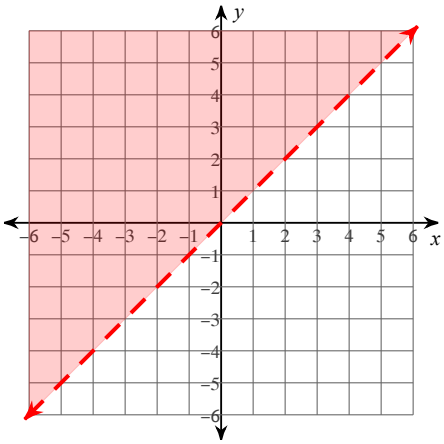
58) $y \geq -\frac{5}{3}x - 5$



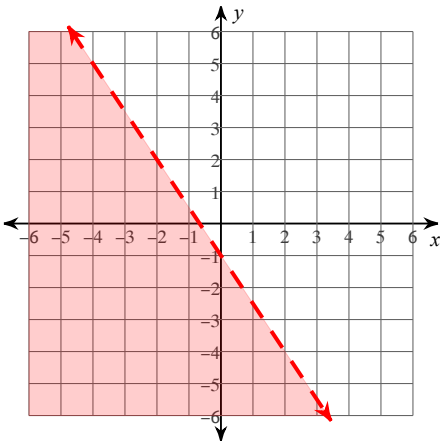
59) $y > -\frac{9}{5}x - 5$



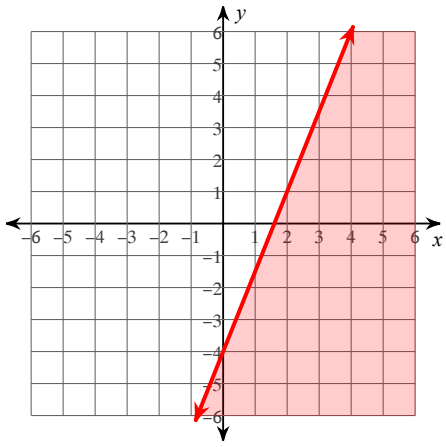
60) $y > x$



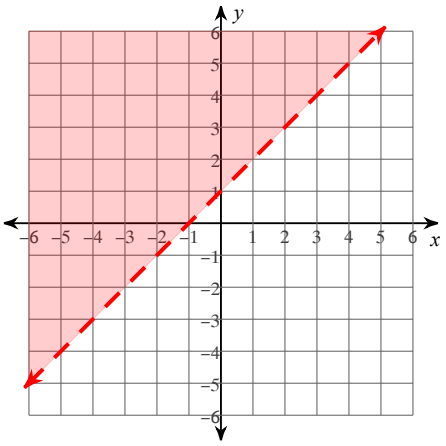
61) $3x + 2y < -2$



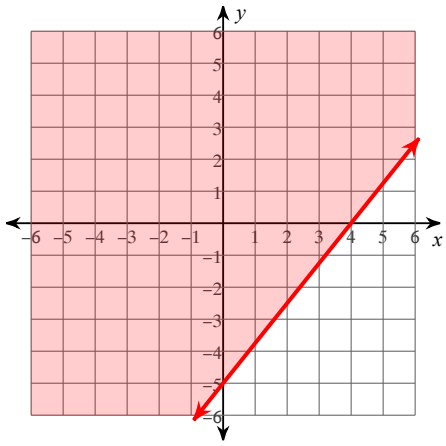
62) $5x - 2y \geq 8$



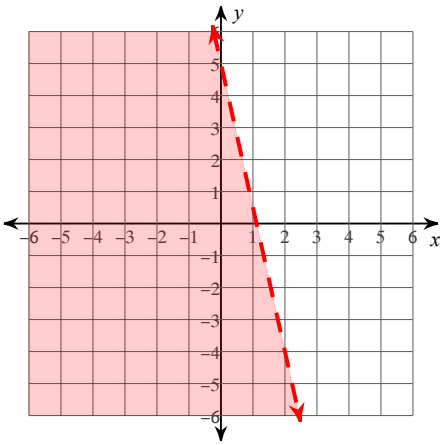
63) $x - y < -1$



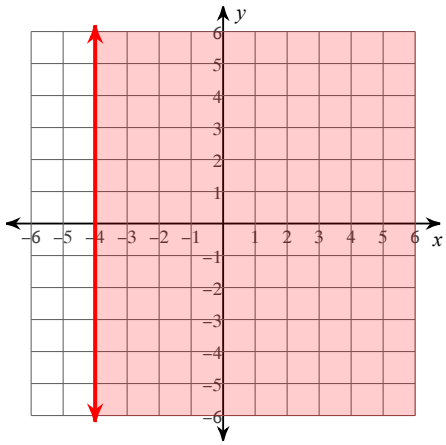
64) $5x - 4y \leq 20$



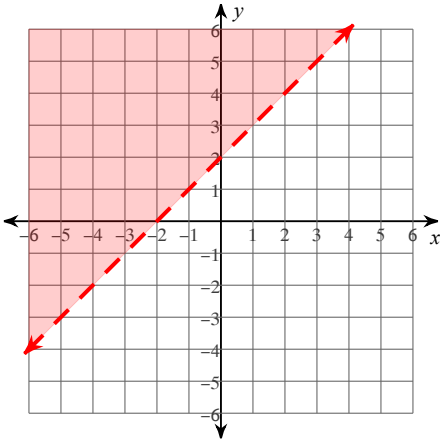
65) $9x + 2y < 10$



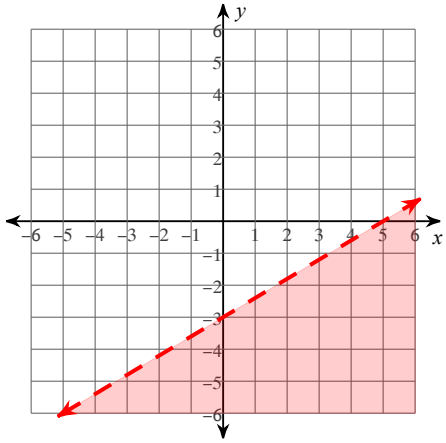
66) $x \geq -4$



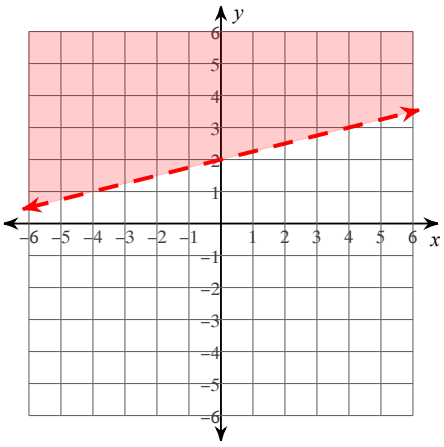
67) $x - y < -2$



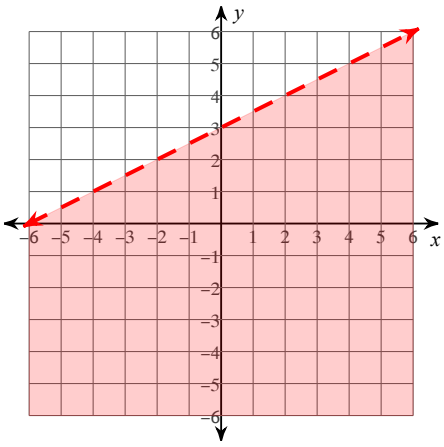
68) $3x - 5y > 15$



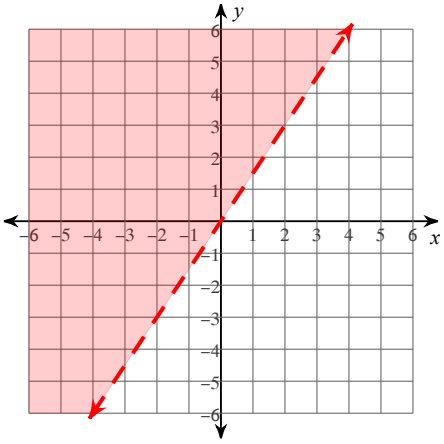
69) $x - 4y < -8$



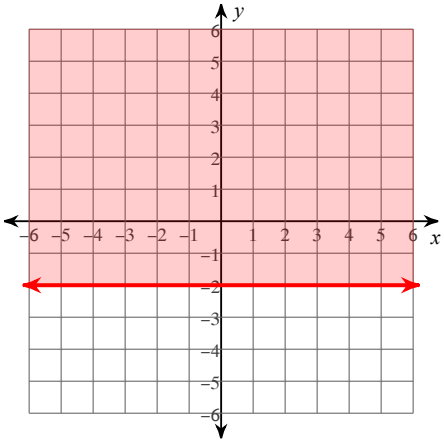
70) $x - 2y > -6$



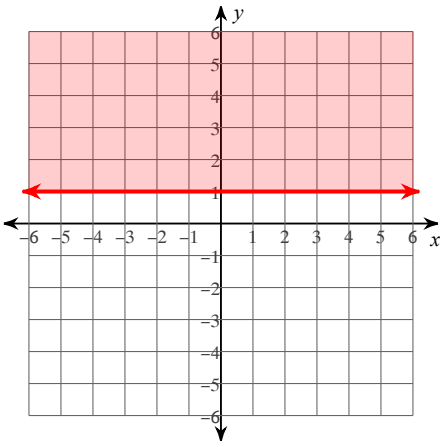
71) $3x - 2y < 0$



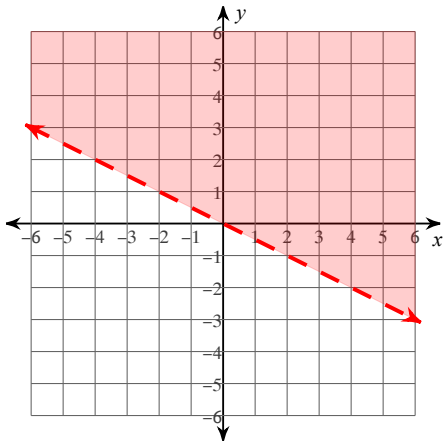
72) $y \geq -2$



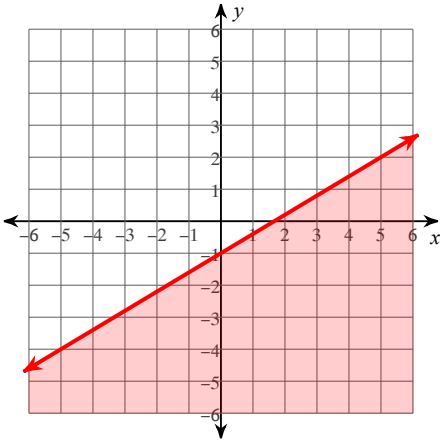
73) $y \geq 1$



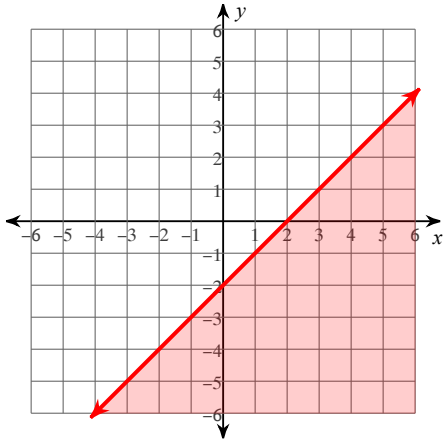
74) $x + 2y > 0$



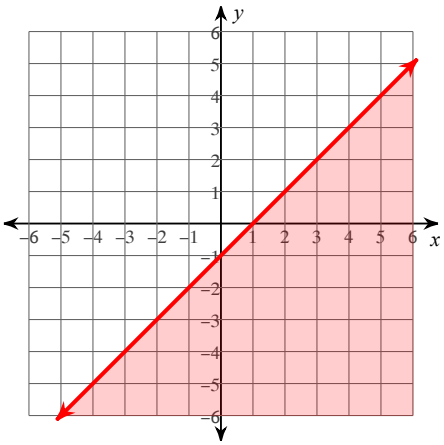
75) $3x - 5y \geq 5$



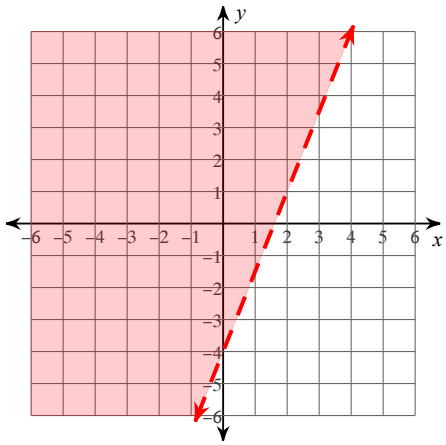
76) $x - y \geq 2$



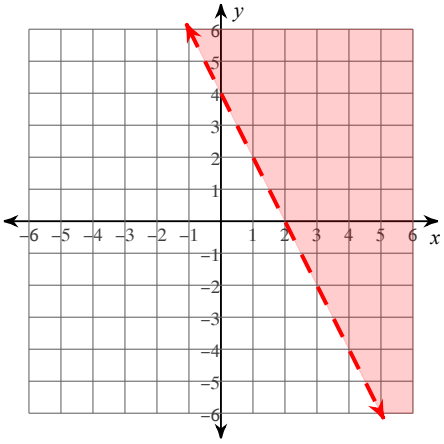
77) $x - y \geq 1$



78) $5x - 2y < 8$



79) $2x + y > 4$



80) $7x + 3y > 9$