

W-A2 Algebra 2 Week 4

SINGING

Review 1-3

$$2(u + 3v) = w - 5u \quad u =$$

"DIE FOR YOU"
 CARE FOR AMBER

$$2u + 6v = w - 5u$$

+5u

+5u

$$7u + 6v = w$$

-6v -6v

$$\frac{7u}{7} = \frac{w - 6v}{7}$$

$$u = \frac{w - 6v}{7}$$

$$k(y + 3z) = 4(y - 5) \quad y =$$

$$ky + 3kz = 4y - 20$$

-4y

-4y

$$ky - 4y + 3kz = -20$$

-3kz

-3kz

$$y(k - 4) = -3kz - 20$$

$$\frac{y(k - 4)}{(k - 4)} = \frac{-3kz - 20}{(k - 4)}$$

$$y = \frac{-3kz - 20}{k - 4}$$

$$12 \left(\frac{2}{3} f + \frac{5}{12} g \right) = (1 - fg) 12 \quad \underline{\underline{f =}}$$

$$\frac{24}{3} f + \frac{60}{12} g = 12 - 12fg$$

$$8f + 5g = 12 - 12fg$$

+12fg

$$12fg = 12 * f * g$$

$$12fg + 8f + 5g = 12$$

$$12fg + 8f = 12 - 5g$$

$$\frac{f(12g + 8)}{12g + 8} = \frac{12 - 5g}{12g + 8}$$

$$f = \frac{12 - 5g}{12g + 8}$$

~~$$\frac{a - 3y}{b} = \frac{a + y}{8}$$~~

$$8(a - 3y) = b(a + y)$$

$$8a - 24y = ab + by$$

+24y +24y

$$8a = ab + by + 24y$$

-ab -ab

a =

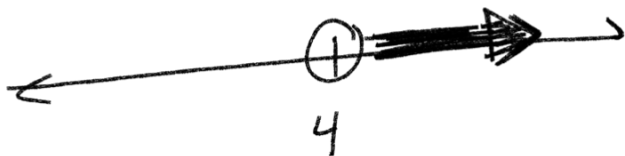
$$8a - ab = by + 24y$$

$$\frac{a(8 - b)}{8 - b} = \frac{by + 24y}{8 - b}$$

$$a = \frac{by + 24y}{8 - b}$$

1-4 Solving Inequalities

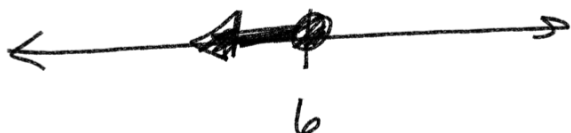
$$\boxed{x} > 4$$



$$8 \geq \boxed{x}$$



$$x \leq 6$$



$$3(y - 5) \leq 6$$

$$3y - 15 \leq 6$$

+15 +15

$$\frac{3y}{3} \leq \frac{21}{3}$$

$$\boxed{y \leq 7}$$



$$3 - 4m < 11$$

-3 -3

$$-4m < 8$$

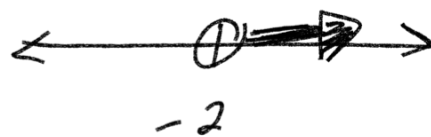
$$\textcircled{-4} \downarrow \textcircled{-4}$$

$$m > -2$$

multiply/
divide
by a negative
flip the
inequality

$$\downarrow$$

$$m > -2$$



$$-2(3-h) + 2h \geq 0$$

$$-6 + 2h + 2h \geq 0$$

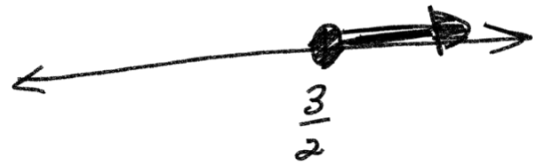
$$\rightarrow 4h - 6 \geq 0$$

$$\frac{4h}{4} \geq \frac{6}{4}$$

$$h \geq \frac{6}{4}$$

$$h \geq \frac{3}{2}$$

$$h \geq 1.5$$



$$5p + 12 \leq 9p - 20$$

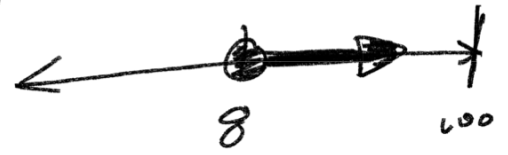
$$-4p + 12 \leq -20$$

$$-4p \leq -32$$

$$p \geq 8$$

Divided by negative
flip inequality

$$p \geq 8$$



$$4 < 1 - 3x < 7$$

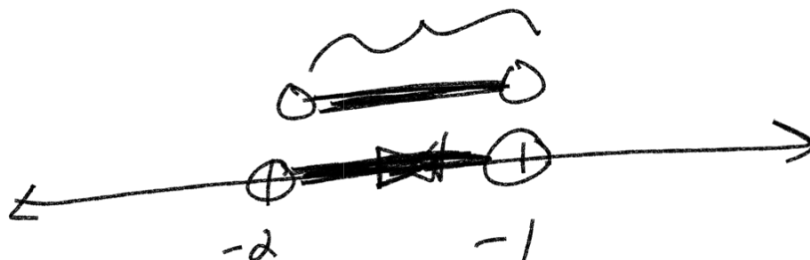
$$\frac{3}{-3} < \frac{-3x}{-3} < \frac{6}{-3}$$

$$4 < 1 - 3x$$

$$-1 > x > -2$$

$$-1 > x$$

$$x > -2$$



$$\frac{16x}{16} \leq \frac{32}{16} \quad \text{or} \quad \frac{-5x}{-5} < \frac{-40}{-5} \quad \text{flip inequality}$$

$$x \leq 2 \quad \text{or} \quad x > 8$$

diverge



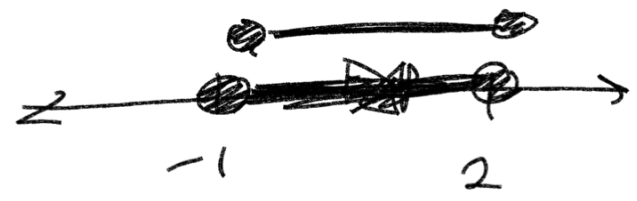
$$3x - 5 \geq -8 \quad \text{and} \quad 3x - 5 \leq 1$$

$$+5 \quad +5 \qquad \qquad +5 \quad +5$$

$$\frac{3x}{3} \geq \frac{-3}{3} \qquad \qquad \frac{3x}{3} \leq \frac{6}{3}$$

$$x \geq -1 \qquad \qquad \qquad x \leq 2$$

converge



Quiz 2 due today!
 Quiz 3 due Oct 7th
 HW 1-4 evens
 Homework 4 (Fri)
 Quiz 4 (Fri)
 due Oct 14th

