T-A1 Algebra 1 Week 16

1.) Distribute
2.) Combine Like terms
3.) Solve

$2(5t-25)+5t < -80$

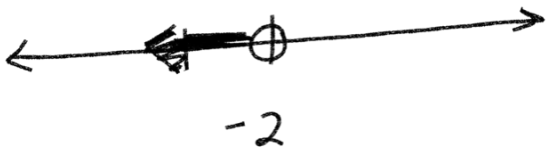
$10t-50+5t < -80$

$15t-50 < -80$

$+50 \quad +50$

$\frac{15t}{15} < \frac{-30}{15}$

$t < -2$



$38+7t > -3(t+4)$

$38+7t > -3t-12$

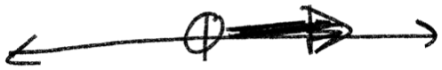
$+3t \quad +3t$

$38+10t > -12$

$-38 \quad -38$

$\frac{10t}{10} > \frac{-50}{10}$

$t > -5$



$7+2a > 9$ (or) $-4a > 8$

$-7 \quad -7 \qquad \frac{-4a}{-4} > \frac{8}{-4}$

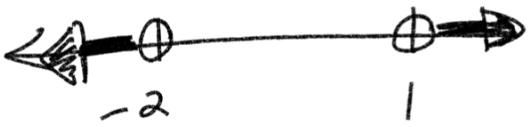
$\frac{2a}{2} > \frac{2}{2}$

$a > 1$

$a < -2$

"or"

divergent



$-4d + 3 > 11$
$\quad -3 \quad -3$
$-4d > 8$

$\frac{-4d}{-4} > \frac{8}{-4}$

$d < -2$

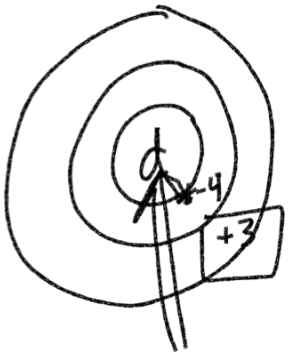
"and"

$2d - 5 > -11$
$\quad +5 \quad +5$

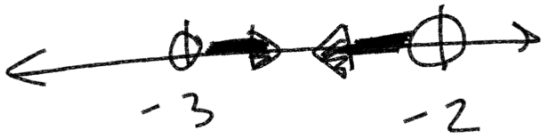
converge

$\frac{2d}{2} > \frac{-6}{2}$

$d > -3$



$-4d + 3 = 11$
$\quad -3 \quad -3$
$-4d = 8$



$-6 < 9 + 3y < 6$
$\quad -9 \quad -9 \quad -9$

$\frac{-15}{3} < \frac{3y}{3} < \frac{-3}{3}$

"and"

$-6 < 9 + 3y$ and $9 + 3y < 6$
$\quad -9 \quad -9$ $\quad -9 \quad -9$

$\frac{-15}{3} < \frac{3y}{3}$

$-5 < y < -1$

$\{-5 < y\}$ $\quad y < -1$

$>$ $<$ $\quad \geq$ $\leq$

$x - 2 \leq -6$ or $5 + x > 7$

$+2 \quad +2 \qquad -5 \quad -5$

$x \leq -4$ $\qquad$ $x > 2$

$-5 \leq 2x - 1 < 7$

$+1 \quad +1 \quad +1$

$-5 \leq 2x - 1$

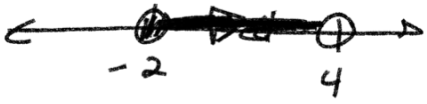
$+1 \quad +1$

$-4 \leq 2x$

$-2 \leq x \quad x < 4$

$\frac{-4}{2} \leq \frac{2x}{2} < \frac{8}{2}$

$-2 \leq x < 4$



$3x - 6 \geq -18$

$+6 \quad +6$

$\frac{3x}{3} \geq \frac{-12}{3}$

$x \geq -4$

and

converge

$10 + 2x < 14$

$-10 \qquad -10$

$\frac{2x}{2} < \frac{4}{2}$

$x < 2$

HW

Ch 3.5 even

** Supplemental WS

Online HW 16 } Feb 2nd

Quiz 16

HW/Quiz 15 due Jan 26th