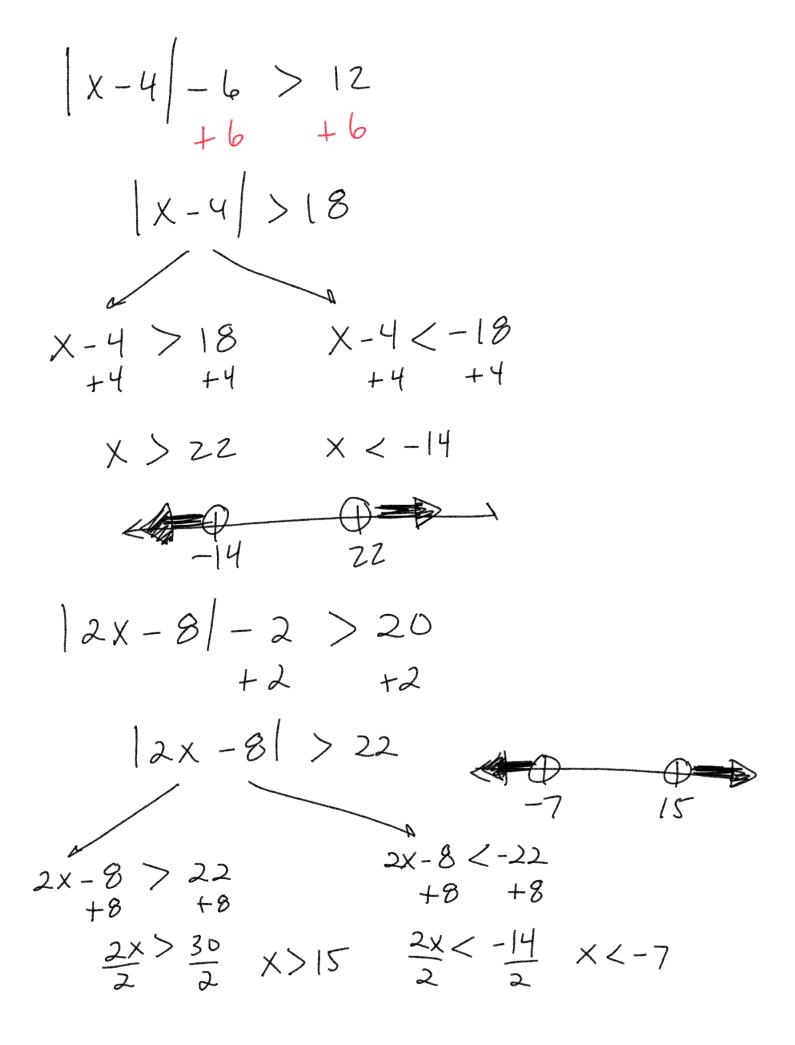
TH-A1 Algebra 1 Week 18
$$2/1$$

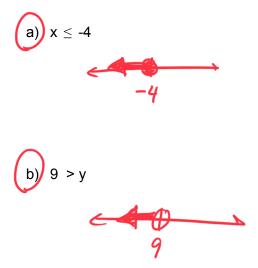
 $|3x| - 4 \le 10$ () Isolate the absolute value
 $+4 + 4$ (2) Check: if negative
 $|3x| \le 14$ no solution
 $|3x| \le 14$ no solution
 $3x \le 14$ no solution
 $3x \le 14$ sign (3) split absolute value
 $3x \le 14$ Solve each.
 $X \le 14$ (5) Graph



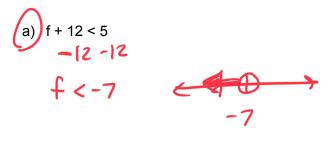
 $\begin{vmatrix} -2 & -2 \\ 5x \end{vmatrix} \stackrel{\geq}{=} \stackrel{-5}{=} \stackrel{\text{regative}}{1}$ Solve each. all solutions, all real numbers Graph 5



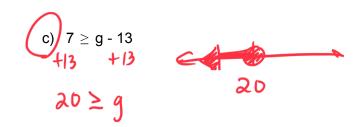
1.) (5 pts each, 10 pts total) (3-1) Graph each of the following inequalities.



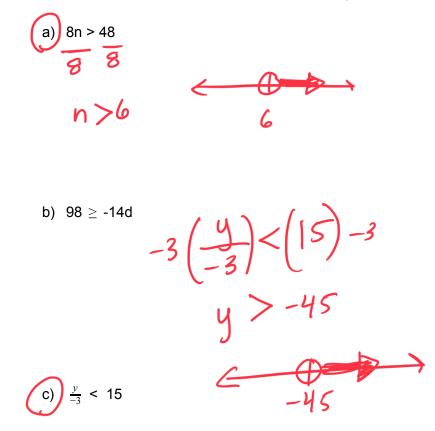
2.) (5 pts each, 15 pts total) (3-2) Solve each inequality. Graph and check the solution.



b) $-8 \le t + 3$

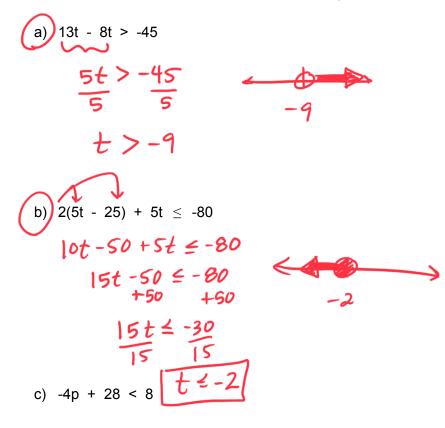


3.) (5 pts each, 20 pts total) (3-3) Solve each inequality. Graph and check the solution.



d) -16 $\leq \frac{b}{6}$

4.) (5 pts each, 20 pts total) (3-4) Solve each inequality. Graph and check the solution.



(d)
$$3(4g - 6) \ge 6(g + 2)$$

 $12g - 18 \ge 6g + 12$
 $-6g - 6g$
 $6g - 18 \ge 12$
 $+18 + 18$
 $6g \ge 30$
 $6 - 6$
 $1g \ge 5$

5.) (5 pts each, 20 pts total) (3-5) Solve each inequality. Graph and check the solution.

(b)
$$7 + 2a > 9$$
 or $-4a > 8$
 $-7 - 7 - 4 - 4$
 $2a > 2$
 $a < -2 - 2 |$
 $a > 1$

$$\begin{array}{c} (2) -1 < h - 2 \le 5 \\ +2 & +2 & +2 \\ | < h \le 7 \end{array}$$

d) t + 5 < 2 or 3t + 1
$$\geq$$
 10

6.) (5 pts each, 10 pts total) (3-6) Solve each inequality. Graph and check the solution.

a)
$$|j| - 2 \ge 6$$

(b)
$$5 > |v + 2| + 3$$

 $z > |v + 2| + 3$
 $z > |v + 2|$
 $z > |v + 2| < 2$
 $v + 2 > -2$
 $z - 2$
 $v < 0$
 $v > -4$
 $v = -2$
 $v =$