

Algebra 1 Chapter 3 Pre-Test

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

a)  $x \leq -4$

b)  $9 > y$

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

a)  $f + 12 < 5$

b)  $-8 \leq t + 3$

c)  $7 \geq g - 13$

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

a)  $8n > 48$

b)  $98 \geq -14d$

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

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

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

a)  $13t - 8t > -45$

b)  $2(5t - 25) + 5t \leq -80$

c)  $-4p + 28 < 8$

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

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

a)  $-4d > 8$  and  $2d > -6$

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

c)  $-1 < h - 2 \leq 5$

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)  $|j| - 2 \geq 6$

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

7.) (5 pts each) (3-6) Solve the equation.

a)  $|3c| - 45 = -18$