Algebra I Worksheet #5 Unit 5 Selected Solutions

Solve each of the following equations. Show your steps neatly organized.

4.
$$|6x-5|=4$$

$$6x-5=4 \text{ or } 6x-5=-4 + 5+5$$

$$\frac{6x=9}{6} \frac{6x=\frac{1}{6}}{6}$$

$$x=\frac{3}{2} \text{ or } x=\frac{1}{6}$$

5.
$$|3x + 2| = 7$$

$$3x + 2 = 7 \text{ or } 3x + 2 = -7$$

$$-2 - 2$$

$$3x = 5$$

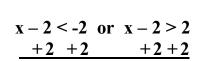
$$3x = -9$$

$$x = \frac{5}{3} \text{ or } x = -3$$

Solve for x. Graph the solution sets on the number lines provided. Show your process neatly organized.

8.
$$|x-3| \le 5$$

 $-5 \le x-3 \le 5$
 $+3$ $+3$ $+3$
 $-2 \le x \le 8$



x < 0 or x > 4

9. |x-2| > 2

