Quiz 16

Solutions given without showing work may earn a zero. This quiz is closed-book, but you may use a calculator.

Problem 1. [3 points] Solve the compound inequality and graph your solution on a number line.

$$2x > 4$$
 or $3x + 2 < 2x - 3$

Problem 2. [3 points] Solve for x.

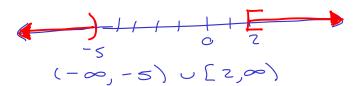
$$\left| \frac{2x+5}{2} \right| = 4$$

Problem 3. [4 points] Solve the inequality and graph your solution on a number line.

$$|2x - 1| + 5 < 12$$

0

 2×24 $3 \times + 2 < 2 \times -3$ $(-\infty, -5)$ $(-\infty, -5)$ $(-\infty, -5)$



$$\frac{2 \times + 5}{2} = -4$$

$$2 \times + 5 = -8$$

$$2 \times = -13$$

$$X = -\frac{13}{2}$$

|2x-1|+5<12 |2x-1|<7 2x-1<7 2x<8 2x>-6 x<4 x>-3 (-3,4)