

Quiz 1.7 and 1.8 Outline

1. Solve the inequality. Express the solution using interval notation.

$$\frac{2}{3} - \frac{1}{2}x \geq \frac{1}{6} + x$$

2. Solve the inequality. Express the solution using interval notation.

$$-2 < 8 - 2x \leq -1$$

3. Solve the inequality. Express the solution using interval notation and graph the solution

$$x^2 + 2x > 3$$

4. Solve the inequality. Express the solution using interval notation and graph the solution

$$\frac{9}{x} > x$$

5. Solve the equation.

$$\left| \frac{3}{5}x + 2 \right| - \frac{1}{2} = 4$$

6. Solve the equation.

$$|x + 3| = |3x + 2|$$

7. Solve the inequality. Express the answer using interval notation.

$$|3x - 2| > 7$$

8. Solve the inequality. Express the answer using interval notation.

$$3 - |2x + 4| \leq 1$$