

MATH 111 WORKSHEET 5

1. Solve. Give your answer in interval notation.

$$\left| \frac{2x - 5}{3} \right| \geq 1$$

2. Solve. Give your answer in interval notation.

$$\left| 3 - \frac{2}{3}x \right| < 5$$

3. Solve. Give your answer in interval notation.

$$2x^2 + x \geq 15$$

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4. Solve. Give your answer in interval notation.

$$\frac{-5}{x+1} \leq \frac{8-x}{2}$$

5. Solve. Give your answer in interval notation.

$$\frac{3x^2 - 27}{x^2 - 1} \leq 2$$

6. Find the *slope-intercept* form of the line passing through the points $(4, -3)$ and $(-2, 6)$.

7. Find the *slope-intercept* form of the line through $(-3, 5)$ parallel to the line $2x - 3y + 6 = 0$.

8. Find the *slope-intercept* form of the line through $(-3, 5)$ perpendicular to the line $2x - 3y + 6 = 0$.