

Name \_\_\_\_\_

### Sign Charts and Lines

Solve.

1.  $x^2 + x - 30 = 0$

2.  $x^2 + 7x - 8 \geq 0$

3.  $x^2 + 5x - 9 > 5$

4.  $5x^2 - 5 \geq 0$

5.  $x^2 - 1 = 0$

6.  $x^2 - 4 \leq 0$

7.  $x^3 - 4x^2 + 3x \leq 0$

8. Find the equation of the line through (1, -1) and perpendicular to  $2x - 3y - 8 = 0$

9. Find the equation of the line through (5, 2) and perpendicular to  $4x - 7y - 10 = 0$

10. Find the equation of the line through (2, 2) and parallel to the line through (3, 4) and (6, 2)

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