

Algebra 2 HW - Writing equations of parallel and perpendicular lines

Write an equation of the line containing the given point and **parallel** to the given line.

1.

$$(-3, 2); \quad x - y = 5$$

2.

$$(-1, -1); \quad 2y + 4x = 8$$

3.

$$(-1, -1); \quad 2y + 4x = 8$$

4.

$$(0, 0); \quad 2x - y = 6$$

Write an equation of the line containing the given point and **perpendicular** to the given line.

5.

$$(0, 6); \quad y - 3x = 4$$

6.

$$(-2, 4); \quad y = 2x - 3$$

7.

$$(0, 2); \quad 3y - x = 0$$

8.

$$(-4, 5); \quad 3x - 2y = 6$$