

## Parallel and Perpendicular Lines Practice Worksheet B

Name \_\_\_\_\_ Class Period \_\_\_\_\_

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### A. Determine whether the lines are parallel, perpendicular, or neither.

1)  $y = -2x + 5$ ;  $y = 2x - 3$  \_\_\_\_\_

2)  $3x - 8y = -16$ ;  $32x + 12y = -18$  \_\_\_\_\_

3)  $9x + 3y = 12$ ;  $27x + 9y = 40$  \_\_\_\_\_

4)  $3x - 4y = 19$ ;  $8x + 6y = 12$  \_\_\_\_\_

### B. Determine whether the lines passing through the given points are parallel, perpendicular, or neither.

5)  $(2, 5)$  and  $(-2, 7)$ ;  $(0, 4)$  and  $(1, 6)$  \_\_\_\_\_

6)  $(1, 2)$  and  $(5, 4)$ ;  $(0, 3)$  and  $(2, 4)$  \_\_\_\_\_

7)  $(0, -5)$  and  $(2, -4)$ ;  $(-1, -5)$  and  $(1, -6)$  \_\_\_\_\_

8)  $(0, 2)$  and  $(-4, 8)$ ;  $(-4, 0)$  and  $(4, -12)$  \_\_\_\_\_

**C. Find the standard equation of a line through the given point A that satisfies the given condition.**

9) Point A  $(2, 1)$   
a. parallel to the y-axis

b. perpendicular to the y-axis

10) Point A  $(2, -4)$ ; parallel to the line  $5x - 2y = 4$ .

11) Point A  $(4, 5)$ ; perpendicular to the line  $3x + 2y = 7$