Name _____ Date _____ Class _____

LESSON 4-9

Practice C

Slopes of Parallel and Perpendicular Lines

Identify which lines are parallel.

1. $y = \frac{1}{4}x + 2$; $y = 4$; $y = 4x$; $y = \frac{1}{4}x$

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2. $y - 1 = -(x + 7)$; $y = -x$; $x + y = 3$; $y = 3x$

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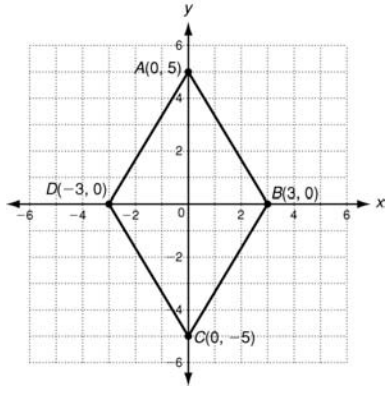
3. Show that *ABCD* is a parallelogram.



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Identify which lines are perpendicular.

4. $y = 3x - 1$; $y = 3$; $x - 3y = 6$; $x = 6$

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5. $y = \frac{1}{2}x + 2$; $y + 1 = -2x$; $y = \frac{1}{2}$; $2x - y = 1$

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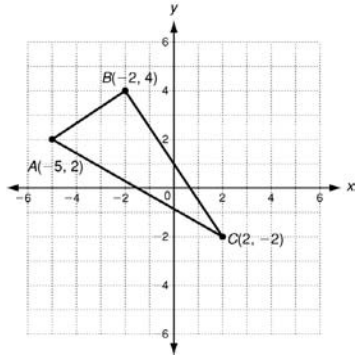
6. Show that *ABC* is a right triangle.



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7. Line *m* contains (6, 8) and (–1, 2). Line *n* contains (–1, 5) and (5, *y*). What is the value of *y* if line *m* is perpendicular to line *n*? _____