

Student Name: _____

Score: _____

Parallel, Perpendicular and Intersecting Lines

Check whether the given pair of lines is parallel / perpendicular / intersecting:

$$y = 3x - 5 \text{ and } y = -3x + 7$$

Answer: _____

$$5x - y = 1 \text{ and } -10x + 2y = 3$$

Answer: _____

$$3x + 2y = 1 \text{ and } x - 3y + 1 = 0$$

Answer: _____

$$x = 4y - 7 \text{ and } y = -4x + 1$$

Answer: _____

$$6x - 4y = 2 \text{ and } 2y = 3x + 1$$

Answer: _____

$$y = -2x + 5 \text{ and } 2y = x - 5$$

Answer: _____

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Answers

$y = 3x - 5$ and $y = -3x + 7$	$5x - y = 1$ and $-10x + 2y = 3$
Answer: intersecting lines	Answer: parallel lines
$3x + 2y = 1$ and $x - 3y + 1 = 0$	$x = 4y - 7$ and $y = -4x + 1$
Answer: intersecting lines	Answer: perpendicular lines
$6x - 4y = 2$ and $2y = 3x + 1$	$y = -2x + 5$ and $2y = x - 5$
Answer: parallel lines	Answer: perpendicular lines