

NAME _____ DATE _____ PER. _____

PARALLEL & PERPENDICULAR LINES

1. Identify which lines are parallel.

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

B. $y = 4$

C. $y = -4x$

D. $4y = x - 6$

2. Identify which lines are perpendicular.

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

B. $y + 1 = -2x$

C. $y = \frac{1}{2}$

D. $2x - y = 1$

Write the equation, in slope-intercept form, of the line that passes through the given point and is ***perpendicular*** to the given line.

3. _____

$(2, -3); y = -\frac{2}{3}x + 4$

4. _____

$(-1, 3); y = -1/2x + 3$

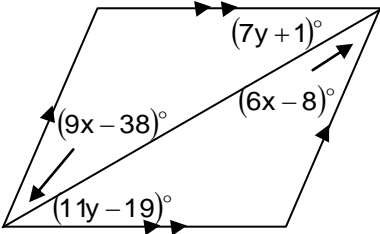
5. _____

$(6, -6); y = 3x - 6$

Write the equation, in slope-intercept form, of the line that passes through the given point and is *parallel* to the given line.

6. _____	$(6, 4); y = \frac{1}{3}x + 1$
7. _____	$(-1, 6); y = -3x + 12$
8. _____	$(4, -6); y = 1/2x - 5$

Review

<p>9. $x =$ _____ $y =$ _____</p>	
<p>10. $x =$ _____ $y =$ _____</p>	<p>If $m\angle 2 = (6x - 4)^\circ$, $m\angle 4 = (11y + 2)^\circ$, $m\angle 5 = (7x - 10)^\circ$, and $m\angle 6 = 47^\circ$, find the values of 'x' and 'y'.</p> 