Name : _____ Score : _____

Teacher : _____ Date : _____

Parallel, Perpendicular, and Neither

Determine if the given pair of lines is parallel, perpendicular, or neither.

1) $y = -\frac{2}{3}x - 14$ and $y = \frac{3}{2}x + 3$ Answer: _____	5) $y = -\frac{4}{3}x + 1$ and $y = -\frac{4}{3}x + 1$ Answer: _____
2) $y = -\frac{7}{4}x + 12$ and $7x + 4y = 16$ Answer: _____	6) $y = -\frac{2}{5}x + 5$ and $-5x + 2y = 6$ Answer: _____
3) $y = -2x - 13$ and $y = 2x - 2$ Answer: _____	7) $y = \frac{6}{5}x - 9$ and $-6x + 5y = -10$ Answer: _____
4) $y = 3x + 6$ and $-x + 3y = -6$ Answer: _____	8) $y = -\frac{7}{4}x + 10$ and $y = \frac{7}{4}x - 3$ Answer: _____

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Parallel Lines

Find the equation of a line passing through the given point and parallel to the given equation.
Write your answer in slope-intercept form.

1) (1 , -3) and y = 4x - 10 Answer: _____	5) (5 , -2) and y = 2x + 3 Answer: _____
2) (3 , 1) and y = 4x + 4 Answer: _____	6) (4 , 2) and -6x + 4y = -16 Answer: _____
3) (4 , -3) and 5x + 2y = -8 Answer: _____	7) (3 , -1) and 3x + y = -12 Answer: _____
4) (0 , -4) and -x + 2y = 6 Answer: _____	8) (4 , -4) and y = 3x + 2 Answer: _____

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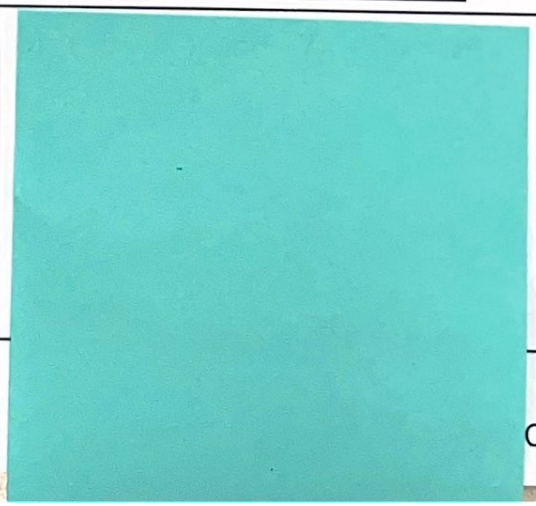
Perpendicular Lines

Find the equation of a line passing through the given point and perpendicular to the given equation. Write your answer in slope-intercept form.

1) $(-18, -2)$ and $y = -6x - 3$ Answer: _____	5) $(2, 5)$ and $y = \frac{1}{2}x - 1$ Answer: _____
2) $(0, -4)$ and $-x + 2y = -20$ Answer: _____	6) $(8, 5)$ and $y = 2x - 2$ Answer: _____
3) $(-8, -1)$ and $8x + 2y = 12$ Answer: _____	7) $(1, 1)$ and $y = 3x + 2$ Answer: _____



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