

Name : _____

Score : _____

Teacher : _____

Date : _____

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) (5 , -5) and $x - y = 12$ Answer: _____	5) (0 , 3) and $y = \frac{2}{3}x + 1$ Answer: _____
2) (1 , 5) and $5x + 3y = 24$ Answer: _____	6) (-1 , 2) and $5x + 6y = -12$ Answer: _____
3) (4 , -2) and $y = -2x + 2$ Answer: _____	7) (4 , 5) and $y = -\frac{4}{3}x + 1$ Answer: _____
4) (1 , -2) and $3x + 2y = 12$ Answer: _____	8) (-2 , 3) and $y = -\frac{2}{5}x - 2$ 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) (5 , -5) and $x - y = 12$ Answer: $y = -x$	5) (0 , 3) and $y = \frac{2}{3}x + 1$ Answer: $y = -\frac{3}{2}x + 3$
2) (1 , 5) and $5x + 3y = 24$ Answer: $y = \frac{3}{5}x + \frac{22}{5}$	6) (-1 , 2) and $5x + 6y = -12$ Answer: $y = \frac{6}{5}x + \frac{16}{5}$
3) (4 , -2) and $y = -2x + 2$ Answer: $y = \frac{1}{2}x - 4$	7) (4 , 5) and $y = -\frac{4}{3}x + 1$ Answer: $y = \frac{3}{4}x + 2$
4) (1 , -2) and $3x + 2y = 12$ Answer: $y = \frac{2}{3}x - \frac{8}{3}$	8) (-2 , 3) and $y = -\frac{2}{5}x - 2$ Answer: $y = \frac{5}{2}x + 8$