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) (-4 , -3) and -x + 2y = -20 Answer: _____	5) (5 , 5) and x + 4y = 32 Answer: _____
2) (-2 , 4) and 2x + 9y = 18 Answer: _____	6) (-3 , -3) and $y = -\frac{5}{2}x - 1$ Answer: _____
3) (5 , -4) and y = - 2x + 2 Answer: _____	7) (-5 , -4) and $y = -\frac{8}{3}x + 4$ Answer: _____
4) (0 , -4) and x + 3y = 3 Answer: _____	8) (2 , -5) and $y = -\frac{2}{5}x - 2$ Answer: _____

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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) (-4 , -3) and -x + 2y = -20 Answer: y = - 2 x - 11	5) (5 , 5) and x + 4y = 32 Answer: y = 4 x - 15
2) (-2 , 4) and 2x + 9y = 18 Answer: $y = \frac{9}{2}x + 13$	6) (-3 , -3) and $y = -\frac{5}{2}x - 1$ Answer: $y = \frac{2}{5}x - \frac{9}{5}$
3) (5 , -4) and y = - 2x + 2 Answer: $y = \frac{1}{2}x - \frac{13}{2}$	7) (-5 , -4) and $y = -\frac{8}{3}x + 4$ Answer: $y = \frac{3}{8}x - \frac{17}{8}$
4) (0 , -4) and x + 3y = 3 Answer: y = 3 x - 4	8) (2 , -5) and $y = -\frac{2}{5}x - 2$ Answer: $y = \frac{5}{2}x - 10$