

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 $x + y = 8$ Answer: _____	5) $(-4, -5)$ and $7x + 4y = 16$ Answer: _____
2) $(-1, -5)$ and $y = \frac{1}{2}x - 1$ Answer: _____	6) $(-3, -1)$ and $y = -6x - 3$ Answer: _____
3) $(-3, -3)$ and $y = \frac{2}{3}x + 1$ Answer: _____	7) $(5, 4)$ and $2x + 9y = 18$ Answer: _____
4) $(2, -3)$ and $4x + 3y = 3$ Answer: _____	8) $(-5, 3)$ and $y = -5x - 3$ 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 $x + y = 8$ Answer: $y = x$	5) $(-4, -5)$ and $7x + 4y = 16$ Answer: $y = \frac{4}{7}x - \frac{19}{7}$
2) $(-1, -5)$ and $y = \frac{1}{2}x - 1$ Answer: $y = -2x - 7$	6) $(-3, -1)$ and $y = -6x - 3$ Answer: $y = \frac{1}{6}x - \frac{1}{2}$
3) $(-3, -3)$ and $y = \frac{2}{3}x + 1$ Answer: $y = -\frac{3}{2}x - \frac{15}{2}$	7) $(5, 4)$ and $2x + 9y = 18$ Answer: $y = \frac{9}{2}x - \frac{37}{2}$
4) $(2, -3)$ and $4x + 3y = 3$ Answer: $y = \frac{3}{4}x - \frac{9}{2}$	8) $(-5, 3)$ and $y = -5x - 3$ Answer: $y = \frac{1}{5}x + 4$

