

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



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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) $(-3, 5)$ and $-5x + 3y = -9$ Answer: $y = -\frac{3}{5}x + \frac{16}{5}$	5) $(5, -3)$ and $y = -\frac{2}{5}x - 2$ Answer: $y = \frac{5}{2}x - \frac{31}{2}$
2) $(-1, 1)$ and $x - y = 12$ Answer: $y = -x$	6) $(-3, -2)$ and $y = \frac{5}{2}x - 4$ Answer: $y = -\frac{2}{5}x - \frac{16}{5}$
3) $(3, -5)$ and $y = -\frac{7}{6}x + 10$ Answer: $y = \frac{6}{7}x - \frac{53}{7}$	7) $(-5, -4)$ and $-x + 4y = -16$ Answer: $y = -4x - 24$
4) $(3, -4)$ and $-2x + 5y = 10$ Answer: $y = -\frac{5}{2}x + \frac{7}{2}$	8) $(-5, 3)$ and $y = \frac{1}{2}x + 3$ Answer: $y = -2x - 7$

