

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

### Perpendicular Lines Worksheet

Find the equation of line passing through the given point and perpendicular to the given equation:

$(1, 4)$  and  $y = 3x + 7$

Answer: \_\_\_\_\_

$(2, 5)$  and  $y = 2x + 4$

Answer: \_\_\_\_\_

$(-3, 7)$  and  $x - 7y = 4$

Answer: \_\_\_\_\_

$(0, -6)$  and  $5x + 4y = 0$

Answer: \_\_\_\_\_

$(-2, -3)$  and  $2x + 5y + 3 = 0$

Answer: \_\_\_\_\_

$(-5, -1)$  and  $6x - y - 11 = 0$

Answer: \_\_\_\_\_

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### Answers

$(1, 4)$ and $y = 3x + 7$	$(2, 5)$ and $y = 2x + 4$
Answer: $y = -\frac{x}{3} + \frac{13}{3}$	Answer: $y = -\frac{x}{2} + 6$
$(-3, 7)$ and $x - 7y = 4$	$(0, -6)$ and $5x + 4y = 0$
Answer: $7x + y = -14$	Answer: $4x - 5y = 30$
$(-2, -3)$ and $2x + 5y + 3 = 0$	$(-5, -1)$ and $6x - y - 11 = 0$
Answer: $5x - 2y + 4 = 0$	Answer: $x + 6y + 11 = 0$