

# Answers to "Graphing Notes and Homework"

1.  $y - 5 = -2(x - 3)$   
 $y - 5 = -2x + 6$   
 $2x + y - 11 = 0$

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2.  $y + 4 = \frac{3}{2}(x + 2)$   
 $2y + 8 = 3x + 6$   
 $0 = 3x - 2y - 2$

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3.  $y - 0 = \frac{-1}{2}(x + 7)$   
 $2y = -x - 7$   
 $x + 2y + 7 = 0$

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4. rise : 5       $y - 2 = \frac{5}{2}(x - 3)$   
run : 2       $2y - 4 = 5x - 15$   
slope :  $\frac{5}{2}$        $0 = 5x - 2y - 19$

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5. Vertical line:  $x = 8$

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6. Horizontal line:  $y = -9$

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7. Vertical line:  $x = -5$

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8. Horizontal line:  $y = -9$

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9.  $y - 2 = -\frac{3}{4}(x - 0)$   
Slope:  $-\frac{3}{4}$        $4y - 8 = -3x$   
 $3x + 4y - 8 = 0$

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10.  $y - 2 = -\frac{2}{5}(x - 1)$   
Slope:  $-\frac{2}{5}$        $5y - 10 = -2x + 2$   
 $2x + 5y - 12 = 0$