Date: HW #

**3.4 & 3.5 Slope and Graphing Linear Equations**

**Directions: Find the slope through the given points.**

1. $\left(5, -7\right)and (-3, 9)$ **2.** $\left(-3, 1\right) and (7, 13)$

**Directions: Find the missing coordinate.**

**3. The slope of a line is** $\frac{-2}{3}$ **and the line contains the points (-3, 7) and (9, a).**

 **What is the value of a?**

**4. The slope of a line is 4 and the line contains the points (-1, -8) and (x, 8).**

 **What is the value of x?**

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**Directions: Graph a line with the given description.**

**7.** $y= -\frac{1}{4}x+2$ **8.** $x=4$

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**9.** $y=3x-5$ **10.** Through (1, 1) and parallel to the line

through y = 3x + 2

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**11.** Through (3, 0) and perpendicular to the line **12.** Through (1, 3) and perpendicular to the line

through $y=\frac{2}{3}x-5$ through (-1, -1) and (2, 0)