

Name: \_\_\_\_\_ Show work needed to justify your answer. Date: \_\_\_\_\_

**HW # 27:** Algebra 1 - Standard 16 - Writing Equations in Slope Intercept Form

5 points

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**Write an equation of the line that passes through the given point and has the given slope.**

1.  $(4, 2)$ ; slope  $\frac{1}{2}$

2.  $(3, -2)$ ; slope  $\frac{1}{3}$

3.  $(6, 4)$ ; slope  $-\frac{3}{4}$

4.  $(-5, 4)$ ; slope  $-3$

5.  $(4, 3)$ ; slope  $\frac{1}{2}$

6.  $(1, -5)$ ; slope  $-\frac{3}{2}$

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8. **JOBS** Mr. Kimball sells computer software. He earns a base salary of \$41,250 and 8% commission on his sales. Write an equation to represent Mr. Kimball's total pay  $p$  after selling  $d$  dollars of software.

9. **USE A MODEL** In 2006, the average ticket price for a National Football League game was \$62.38. Since then the cost has increased an average of \$2.54 per year. Write a linear equation to represent the cost  $C$  of an NFL ticket  $y$  years after 2006.