

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

**HW # 22:** Algebra 1 - Standard 11 - Slope Intercept Form

5 points

**Write an equation of a line in slope-intercept form with the given slope and y-intercept.**

1. slope: 5, y-intercept:  $-3$

2. slope:  $-2$ , y-intercept: 7

**Write each equation in slope-intercept form.**

9.  $-10x + 2y = 12$

10.  $4y + 12x = 16$

11.  $-5x + 15y = -30$

12.  $6x - 3y = -18$

13.  $-2x - 8y = 24$

14.  $-4x - 10y = -7$

15. **SAVINGS** Wade's grandmother gave him \$100 for his birthday. Wade wants to save his money to buy a portable game console. Each month, he adds \$25 to his savings. Write an equation in slope-intercept form to represent Wade's savings  $y$  after  $x$  months.

16. **FITNESS CLASSES** Toshelle wants to take strength training classes at the community center. She has to pay a one-time enrollment fee of \$25 to join the community center, and then \$45 for each class she wants to take. Write an equation in slope-intercept form for the cost of taking  $x$  classes.