**3-4 Practice****Equations of Lines**

Write an equation in slope-intercept form of the line having the given slope and y -intercept.

1. $m: \frac{2}{3}, y\text{-intercept: } -10$

2. $m: -\frac{7}{9}, \left(0, -\frac{1}{2}\right)$

3. $m: 4.5, (0, 0.25)$

Write equations in point-slope form and slope-intercept form of the line having the given slope and containing the given point.

4. $m: \frac{3}{2}, (4, 6)$

5. $m: -\frac{6}{5}, (-5, -2)$

6. $m: 0.5, (7, -3)$

7. $m: -1.3, (-4, 4)$

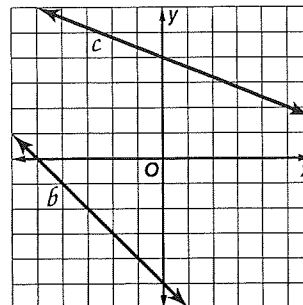
Write an equation in slope-intercept form for each line.

8. b

9. c

10. parallel to line b , contains $(3, -2)$

11. perpendicular to line c , contains $(-2, -4)$



Write an equation in slope-intercept form for the line that satisfies the given conditions.

12. $m = -\frac{4}{9}, y\text{-intercept} = 2$

13. $m = 3$, contains $(2, -3)$

14. x -intercept is -6 , y -intercept is 2

15. x -intercept is 2 , y -intercept is -5

16. passes through $(2, -4)$ and $(5, 8)$

17. contains $(-4, 2)$ and $(8, -1)$

18. **COMMUNITY EDUCATION** A local community center offers self-defense classes for teens. A \$25 enrollment fee covers supplies and materials and open classes cost \$10 each. Write an equation to represent the total cost of x self-defense classes at the community center.