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Write an equation in slope-intercept form for the line described.

1. slope 1.5, passes through (0, 5)
2. passes through (-2, 3) and (0, 1)
3. passes through (3, 5); $m = -2$
4. passes through (-8, -2); $m = \frac{5}{2}$

Write an equation of the line passing through each pair of points.

5. (-9, 11), (-6, -1)
6. (4, 3), (-1, 6)
7. (8, 10), (-4, -6)

MP APPLY MATH Write an equation in slope-intercept form for the line that satisfies each set of conditions.

8. passes through (-9, -3), perpendicular to $y = -\frac{5}{3}x - 8$
9. passes through (4, -10), parallel to $y = \frac{7}{8}x - 3$

Write an equation in slope-intercept form for the line described.

10. slope 3, passes through (0, -2)
11. slope $-\frac{1}{2}$, passes through (0, 5)
12. slope $-\frac{6}{5}$, passes through (0, 8)
13. slope $\frac{9}{2}$, passes through $(0, -\frac{13}{2})$
14. slope -2, passes through (-3, 14)
15. slope 4, passes through (6, 9)
16. slope $\frac{3}{5}$, passes through (-6, -8)
17. slope $-\frac{1}{4}$, passes through (12, -4)

18. **PART-TIME JOB** Each week, Carmen earns a base pay of \$35 plus \$0.17 for every pamphlet that she delivers. Write an equation that can be used to find how much Carmen earns each week. How much will she earn the week that she delivers 300 pamphlets?

Write an equation of the line passing through each pair of points.

19. (-2, -6), (4, 6)
20. (-8, -5), (-3, 10)
21. (-4, 12), (-2, -4)