

P.I. A.A.34: Write the equation of a line, given its slope and the coordinates of a point on the line

1. Find an equation of the line passing through the point (2, 7) with slope $m = 6$.

[A] $y = 6x - 5$ [B] $y = 6x - 40$

[C] $y = \frac{1}{6}x - \frac{20}{3}$ [D] $y = \frac{1}{6}x - \frac{5}{6}$

2. Find an equation of the line passing through the point (-5, 3) with slope $m = 2$.

[A] $y = \frac{1}{2}x + \frac{13}{2}$ [B] $y = \frac{1}{2}x - \frac{11}{2}$

[C] $y = 2x - 11$ [D] $y = 2x + 13$

3. Find an equation of the line passing through the point (-6, 5) with slope $m = 5$.

[A] $y = 5x - 31$ [B] $y = 5x + 35$

[C] $y = \frac{1}{5}x - \frac{31}{5}$ [D] $y = \frac{1}{5}x + 7$

4. Find an equation of the line passing through the point (7, 6) with slope $m = 2$.

[A] $y = 2x - 5$ [B] $y = \frac{1}{2}x - 4$

[C] $y = \frac{1}{2}x - \frac{5}{2}$ [D] $y = 2x - 8$

5. Find an equation of the line passing through the point (4, 3) with slope $m = 3$.

[A] $y = 3x - 9$ [B] $y = \frac{1}{3}x - \frac{5}{3}$

[C] $y = 3x - 5$ [D] $y = \frac{1}{3}x - 3$

6. Write an equation of the line that passes through the point (3, 5) with slope -4 .

[A] $y = -4x + 17$ [B] $y = 4x + 17$

[C] $y = -4x + 5$ [D] $y = 4x + 5$

7. Write an equation of the line that passes through the point $(-2, 4)$ with slope 1.

[A] $y = x + 4$ [B] $y = -x + 4$

[C] $y = x + 6$ [D] $y = -x + 6$

8. Write an equation of the line that passes through the point $(-5, -6)$ with slope 3.

[A] $y = 3x - 6$ [B] $y = 3x + 9$

[C] $y = -3x + 9$ [D] $y = -3x - 6$

9. Write an equation of the line that passes through the point $(6, 2)$ with slope 3.

[A] $y = -3x + 2$ [B] $y = -3x - 16$

[C] $y = 3x - 16$ [D] $y = 3x + 2$

10. Write an equation of the line that passes through the point $(4, -1)$ with slope -2 .

[A] $y = -2x - 1$ [B] $y = 2x - 1$

[C] $y = -2x + 7$ [D] $y = 2x + 7$

11. Write an equation of the line that passes through the point $(-1, -3)$ with slope 2.

[A] $y = -2x - 3$ [B] $y = 2x - 3$

[C] $y = -2x - 1$ [D] $y = 2x - 1$

12. Which equation is correct for a line through $(5, -3)$ with slope 0.75?

[A] $y = \frac{3}{4}x - \frac{27}{4}$ [B] $y = \frac{3}{4}x - \frac{4}{5}$

[C] $y = \frac{3}{4}x - 3$ [D] $y = -\frac{3}{4}x + \frac{27}{4}$

[E] $y = -\frac{3}{4}x + \frac{4}{5}$

Integrated Algebra Practice: A.A.34 #1

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[1] A

[2] D

[3] B

[4] D

[5] A

[6] A

[7] C

[8] B

[9] C

[10] C

[11] D

[12] A