

Name the slope and one point on the line that each point-slope equation represents

1. $y = 1 + 2(x - 3)$ point

slope

2. $y = 1.5 + 2.3(x - 5.2)$ point

slope

3. $y = \frac{4}{7} + \frac{6}{5}\left(x - \frac{22}{7}\right)$ point

slope

4. $y = 3(x - 4) + 5$ point

slope

5. $y = -1 - 2(x - 3)$ point

slope

6. $y = 8 + 3x$ point

slope

7. $y = 12 + 2(x + 1992)$ point

slope

8. $y = -3 + 5(x - 1)$ point

slope

Write an equation in point-slope form given its slope and one point that it passes through.

9. point $(1, -3)$

slope $= 5$

10. point $(-2, 4)$

slope $= -\frac{1}{2}$

A line passes through the point $(-2, -1)$ and $(5, 13)$

- a. Find the slope of the line
- b. Write an equation in point-slope form using your slope from part (a) and the point $(5, 13)$.
- c. Write an equation in point-slope form using your slope from part (a) and the point $(-2, -1)$.
- d. Verify that the equations from parts (b) and (c) are the same by graphing.