Equation of a Line Quiz

Multiple Choice
Identify the choice that best completes the statement or answers the question.

1. Which equation represents the line that passes through the points (−3,7) and (3,3)?
   a. \( y = \frac{2}{3}x + 1 \)
   b. \( y = \frac{2}{3}x + 9 \)
   c. \( y = -\frac{2}{3}x + 5 \)
   d. \( y = -\frac{2}{3}x + 9 \)

2. Which equation represents the line that passes through the point (1,5) and has a slope of −2?
   a. \( y = -2x + 7 \)
   b. \( y = -2x + 11 \)
   c. \( y = 2x - 9 \)
   d. \( y = 2x + 3 \)

Short Answer

3. A line having a slope of \( \frac{3}{4} \) passes through the point (−8,4). Write the equation of this line.
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1. Which equation represents the line that passes through the points (−3, 7) and (3, 3)?
   a. \( y = \frac{2}{3}x + 9 \)
   b. \( y = -\frac{2}{3}x + 9 \)
   c. \( y = -\frac{2}{3}x + 5 \)
   d. \( y = \frac{2}{3}x + 1 \)

2. Which equation represents the line that passes through the point (1, 5) and has a slope of −2?
   a. \( y = -2x + 7 \)
   b. \( y = 2x - 9 \)
   c. \( y = 2x + 3 \)
   d. \( y = -2x + 11 \)

Short Answer

3. A line having a slope of \( \frac{3}{4} \) passes through the point (−8, 4). Write the equation of this line.
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____ 1. Which equation represents the line that passes through the points (−3, 7) and (3, 3)?
   a. \( y = \frac{2}{3} x + 9 \)
   b. \( y = \frac{2}{3} x + 5 \)
   c. \( y = \frac{2}{3} x + 1 \)
   d. \( y = \frac{2}{3} x + 9 \)

____ 2. Which equation represents the line that passes through the point (1, 5) and has a slope of −2?
   a. \( y = 2x + 3 \)
   b. \( y = −2x + 7 \)
   c. \( y = −2x + 11 \)
   d. \( y = 2x − 9 \)

Short Answer

3. A line having a slope of \( \frac{3}{4} \) passes through the point (−8, 4). Write the equation of this line.