

Chapter 1 Mid-Chapter Test

Information 1 of 10 pages 1-10

Part I

Write the equation of the line that passes through the point shown at the right and write equations:

1. Write the equation of the line that passes through the point $(-2, 3)$ and is parallel to the line $y = 2x + 1$.

A. $y = 2x + 5$ B. $y = 2x - 7$ C. $y = -2x + 7$ D. $y = -2x - 5$

Answer: **C**

2. Write the equation of the line that passes through the points $(-1, 2)$ and $(3, -4)$.

A. $y = -\frac{3}{4}x + \frac{5}{4}$ B. $y = -\frac{3}{4}x - \frac{5}{4}$ C. $y = \frac{3}{4}x + \frac{5}{4}$ D. $y = \frac{3}{4}x - \frac{5}{4}$

Answer: **B**

3. Write the equation of the line that passes through the points $(-2, 1)$ and $(1, -3)$.

A. $y = -\frac{4}{3}x + \frac{5}{3}$ B. $y = -\frac{4}{3}x - \frac{5}{3}$ C. $y = \frac{4}{3}x + \frac{5}{3}$ D. $y = \frac{4}{3}x - \frac{5}{3}$

Answer: **B**

4. Write the equation of the line that passes through the point $(-1, 2)$ and is perpendicular to the line $y = 2x + 1$.

A. $y = -\frac{1}{2}x + \frac{5}{2}$ B. $y = -\frac{1}{2}x - \frac{5}{2}$ C. $y = \frac{1}{2}x + \frac{5}{2}$ D. $y = \frac{1}{2}x - \frac{5}{2}$

A. $y = -\frac{1}{2}x + \frac{5}{2}$ B. $y = -\frac{1}{2}x - \frac{5}{2}$ C. $y = \frac{1}{2}x + \frac{5}{2}$ D. $y = \frac{1}{2}x - \frac{5}{2}$

Answer: **A**

5. Write the equation of the line that passes through the point $(-1, 2)$ and is perpendicular to the line $y = 2x + 1$.

A. $y = -\frac{1}{2}x + \frac{5}{2}$ B. $y = -\frac{1}{2}x - \frac{5}{2}$ C. $y = \frac{1}{2}x + \frac{5}{2}$ D. $y = \frac{1}{2}x - \frac{5}{2}$

Answer: **A**



Part II

6. Write the equation of the line that passes through the point $(-1, 2)$ and is perpendicular to the line $y = 2x + 1$.

A. $y = -\frac{1}{2}x + \frac{5}{2}$ B. $y = -\frac{1}{2}x - \frac{5}{2}$ C. $y = \frac{1}{2}x + \frac{5}{2}$ D. $y = \frac{1}{2}x - \frac{5}{2}$

Answer: **A**

7. Write the equation of the line that passes through the point $(-1, 2)$ and is perpendicular to the line $y = 2x + 1$.

A. $y = -\frac{1}{2}x + \frac{5}{2}$ B. $y = -\frac{1}{2}x - \frac{5}{2}$ C. $y = \frac{1}{2}x + \frac{5}{2}$ D. $y = \frac{1}{2}x - \frac{5}{2}$

Answer: **A**

8. Write the equation of the line that passes through the point $(-1, 2)$ and is perpendicular to the line $y = 2x + 1$.

A. $y = -\frac{1}{2}x + \frac{5}{2}$ B. $y = -\frac{1}{2}x - \frac{5}{2}$ C. $y = \frac{1}{2}x + \frac{5}{2}$ D. $y = \frac{1}{2}x - \frac{5}{2}$

Answer: **A**

9. Write the equation of the line that passes through the point $(-1, 2)$ and is perpendicular to the line $y = 2x + 1$.

A. $y = -\frac{1}{2}x + \frac{5}{2}$ B. $y = -\frac{1}{2}x - \frac{5}{2}$ C. $y = \frac{1}{2}x + \frac{5}{2}$ D. $y = \frac{1}{2}x - \frac{5}{2}$

Answer: **A**

10. Write the equation of the line that passes through the point $(-1, 2)$ and is perpendicular to the line $y = 2x + 1$.

A. $y = -\frac{1}{2}x + \frac{5}{2}$ B. $y = -\frac{1}{2}x - \frac{5}{2}$ C. $y = \frac{1}{2}x + \frac{5}{2}$ D. $y = \frac{1}{2}x - \frac{5}{2}$

Answer: **A**



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Hussin A.Rothana



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