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Chapter 2

GRAPHS AND FUNCTIONS

Section 2.1 Rectangular Coordinates and Graphs

1. False. $(-1, 3)$ lies in Quadrant II.

2. False. The expression should be

$$\sqrt{\left(\frac{x_2 - x_1}{2}\right)^2 + \left(\frac{y_2 - y_1}{2}\right)^2}.$$

3. True. The origin has coordinates $(0, 0)$. So, the distance from $(0, 0)$ to (a, b) is

$$d = \sqrt{(a - 0)^2 + (b - 0)^2} = \sqrt{a^2 + b^2}$$

4. True. The midpoint has coordinates

$$\begin{aligned} & \left(\frac{a+3a}{2}, \frac{b+(-3b)}{2} \right) = \left(\frac{4a}{2}, \frac{-2b}{2} \right) \\ & = (2a, -b). \end{aligned}$$

5. True. When $x = 0$, $y = 2(0) + 4 = 4$, so the y -intercept is 4. When $y = 0$, $0 = 2x + 4 \Rightarrow x = -2$, so the x -intercept is -2 .

6. Answers will vary.

7. Any three of the following:

$$\{2, -5\}, \{-1, 7\}, \{3, -9\}, \{5, -17\}, \{6, -21\}$$

8. Any three of the following:

$$\{3, 3\}, \{-5, -21\}, \{8, 18\}, \{4, 6\}, \{0, -6\}$$

12. $P(-4, 3), Q(2, -5)$

$$\begin{aligned} \text{(a)} \quad d(P, Q) &= \sqrt{[2 - (-4)]^2 + (-5 - 3)^2} \\ &= \sqrt{6^2 + (-8)^2} = \sqrt{100} = 10 \end{aligned}$$

(b) The midpoint M of the segment joining points P and Q has coordinates

$$\begin{aligned} & \left(\frac{-4+2}{2}, \frac{3+(-5)}{2} \right) = \left(\frac{-2}{2}, \frac{-2}{2} \right) \\ & = (-1, -1). \end{aligned}$$

13. $P(8, 2), Q(3, 5)$

$$\begin{aligned} \text{(a)} \quad d(P, Q) &= \sqrt{(3-8)^2 + (5-2)^2} \\ &= \sqrt{(-5)^2 + 3^2} \\ &= \sqrt{25 + 9} = \sqrt{34} \end{aligned}$$

(b) The midpoint M of the segment joining points P and Q has coordinates

$$\left(\frac{8+3}{2}, \frac{2+5}{2} \right) = \left(\frac{11}{2}, \frac{7}{2} \right).$$

14. $P(-8, 4), Q(3, -5)$

$$\begin{aligned} \text{(a)} \quad d(P, Q) &= \sqrt{[3 - (-8)]^2 + (-5 - 4)^2} \\ &= \sqrt{11^2 + (-9)^2} = \sqrt{121 + 81} \\ &= \sqrt{202} \end{aligned}$$

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Frederick J. Bueche, Eugene Hecht



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