

Review Answers

5. a) $d = \sqrt{45}$

b) $m = -1/2$

c) $m = 2$

8. a) $a_1 = -10$

b) $a_2 = 11$

c) Both are 10

9. A) graph

B) perimeter = 16.56

C) Right triangle

D) Midpoint of AC (0, 1)

Midpoint of BC (2.5, 3.5)

Midpoint of AB (1.5, 0.5)

12. $2x + 3y = 12$

13. $y = \frac{-2}{3}x + 2$

14. $x = -3$ slope is undefined
 $y = 4$ slope = 0

21. a) $y = -2x - 3$

b) $y = \frac{1}{2}x + 2$

30. $b = 5h$

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1. Table A is a Function

4. Not a Function

6. 16

7. 1

8. 3

9. $-2a - h$

10. $9 + 3x - x^2$

11. $1 + 3x + x^2$

12. $20 + 12x - 5x^2 - 3x^3$

13. $\frac{3x+5}{4-x^2}$ $x \neq \pm 2$

14. $17 - 3x^2$

15. $-21 - 30x - 9x^2$

16. a) -1

b) 24

c) 0

d) 0

17. $F(-4) = 4$

$F(0) = -4$

$F(3) = 0$

$F(5)$ undefined

18. $x = -2$ $x = 1$

19. Domain $[-4, 5)$

Range $[-4, 4]$

20. increasing $[0, 5)$

decreasing $[-4, 0]$

21. $x = 0$

37. A) g

B) m

C) n

D) f

38. a) x-intercepts @ -4.0
y-intercepts @ 0

b) Vertex (-2, -4)

c) Minimum -4

d) Range $y \geq -4$ or $[-4, \infty)$

e) increasing $[-2, \infty)$

f) decreasing $(-\infty, -2]$

43. a) 0

b) 1

c) 2

d) 0

44. a) -2.0

b) -1, 1)

c) no solution

d) $x = 3$
 $x < -2$

45. Domain $(-\infty, \infty)$ or All Real numbers

Range $(-3, \infty)$