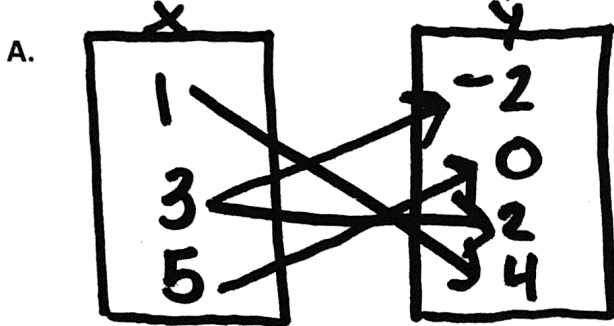


Unit 5 Quiz Review Answers

1. Not a function, x value of 3 repeats.



B. Domain {1, 3, 5} Range {-2, 0, 2, 4}

2. Yes

3. No

4. Continuous Domain: $(-\infty, \infty)$ Range: $[0, \infty)$

5. Discrete Domain $\{-2, -1, 0, 3\}$ Range $\{-2, -1, 0, 3\}$

6. Continuous Domain $[-2, 2]$ Range $[-2, 3]$

7. $g(-1) = 4$, $g(4) = 49$

8. $b(0) = -4$, $b(4) = -12$

9. $h(-2) = -6$, $x = 2$

10. $x = 2$

11. $x = -2$

12. $f(0) = -1$

13. $f(0) = -2$

14. A. \$130 B. 165 miles

15. $H(x) = 8x - 6$

16. $K(x) = 6x + 6$

17. A. $g(t) = 44 + 5t$ B. $b(t) = 56 + 8t$ C. $T(t) = 100 + 13t$

18. A. $C(t) = 200$ B. $R(t) = 20,000 + 2,600t$

19. A: $f(-1) = 1$

$f(-7) = -3$

$f(0) = 2$

$f(4) = 4$

B: $x = -5, -3, 1, 3$

C: $x = -6, 4$ y intercept $(0, 2)$

D: domain $[-8, -4]$ range $[-4, 8]$

E: Abs. Min $(-8, -4)$ Abs. Max $(2, 8)$

F: increasing: $-1 < x < 2$ decreasing: $2 < x < 5$

G: relative max $(-4, 6)$ relative min $(-1, 1)$

20. A: 22 blocks

B: 14 blocks

C: 3 minutes

D: 2 blocks

E: 4 minutes