

Answers

7. $g(x) = -5 + |-x + 8|$ 8. $g(x) = |-4x - 1| + 2$

9. $g(x) = 3 - \frac{1}{2}x$ 10. $g(x) = x + \frac{5}{3}$

11. $g(x) = |9x| + 2$ 12. $g(x) = -4|x - 2| + 8$

13. $g(x) = \frac{1}{4}x + \frac{5}{4}$ 14. $g(x) = -|x + 2|$

15. \$315

1.2 Reteach

1. $g(x) = x + 3$

2. $g(x) = x - 3$

3. $g(x) = 4x - 2$

4. $g(x) = |3x + 2| + 1$

5. $g(x) = 3x - 7$

6. $g(x) = |-4x| - 6$

7. $g(x) = 4x + 12$

8. $g(x) = \frac{4}{3}x + 1$

9. $g(x) = |9x| + 2$

10. $g(x) = |\frac{1}{3}x + 1|$

11. $g(x) = \frac{1}{3}x - 4$

12. $g(x) = |2x + 3|$

1.2 Enrichment and Extension

1. $g(x) = 2x - 8; x = 4$

2. $g(x) = -2x - 1; x = -\frac{1}{2}$

3. $g(x) = 6x - 6; x = 1$

4. $g(x) = 6x + 4; x = -\frac{2}{3}$

5. $g(x) = 4x - 14; x = \frac{7}{2}$

6. $g(x) = -2x - 6; x = -3$

7. $g(x) = |x - 1| - 2; x = 3, x = -1$

8. $g(x) = |x + 3| + 1$; no solution, does not intersect x-axis

9. $g(x) = -|x + 5|; x = -5$

10. $g(x) = 2|x + 1| - 6; x = 2, x = -4$

11. $g(x) = -|4x - 38|; x = \frac{19}{2}$

12. $g(x) = -\frac{1}{2}|x - 3| + 2; x = 7, -1$

1.2 Puzzle time

IT HAD A VIRUS

1.3 Cumulative Practice

1. $g(x) = \frac{1}{8}x + \frac{3}{4}$ 2. $g(x) = -\frac{1}{5} + \frac{6}{5}$

1.3 Prerequisite Skills Practice

1. domain: $\{0 \leq x \leq 5\}$

range: $\{0 \leq y \leq 4220\}$

2. domain: $\{0 \leq x \leq 2500\}$

range: $\{0 \leq y \leq 25,625\}$

1.3 Extra Practice

1. $y = 5x + 15$; A child gains about 5 pounds per year.

2. $y = -\frac{11}{4}x + 20$; One loaf of bread uses $\frac{1}{4}$ cups of flour.

3. yes; $y = 22x + 10$; $y = 340$; After 15 days, 340 tickets were sold.

4. not linear

5. $y = 0.42x + 2.67$; $r = 0.65$; The points lie somewhat close to the line.

6. $y = -x + 6$; $r = -0.85$; The points lie close to the line.

1.3 Reteach

1. $y = -\frac{1}{2}x + 10$; An amount of $\frac{1}{2}$ ounce of soap is used each day; 6 days

2. yes; $y = \frac{1}{2}x$; 7.5 cars

1.3 Enrichment and Extension

1. $y = 4$ 2. $y = \frac{2}{3}x - 2$ 3. $y = 7$

4. $y = \frac{1}{2}x - 3$ 5. -9 6. 14

7. $-\frac{3}{2}$ 8. -18 9. 3 10. $-\frac{4}{3}$

11. $y = \frac{5}{4}x - 2495.5$; \$30,750

12. $y = \frac{7}{4}x - 3500.5$; \$36,250; \$5500

1.3 Puzzle Time

ROAD TRIP