

SM3H 2.1 odd answers

1. function

3. function

5. function, Domain: {-1, 0, 1, 2, 8}, Range: {-3, -2, 2, 3}

7. not a function

9. -4

9b. 1

9c. -3

9d. $3x^2 - 2x - 4$

9e. $-3x^2 - 2x + 4$

9f. $12x^2 + 4x - 4$

11. $t \approx 32.057$ Newtons

13. $(-\infty, \infty)$

15. $(-\infty, -4) \cup (-4, 4) \cup (4, \infty)$

17. $(-\infty, 4]$

19. $\left[-\frac{3}{4}, \infty\right)$

21a. $2x^2 + x - 1$ D:

$(-\infty, \infty)$

21b. $-2x^2 + x - 1$ D:

$(-\infty, \infty)$

21c. $2x^3 - 2x^2$ D: $(-\infty, \infty)$

21d. $\frac{x-1}{2x^2}$ D: $(-\infty, 0) \cup (0, \infty)$

21e. 20

21f. -29

21g. 8

21h. 0

23a. the age of a person in
the population, lowest
number is 0

23b. There are 197.34
million Americans who are
20 years old.

23c. There are 290.580
million American who are 0
years old or older.

25. $3(5x + 11y^3)(5x - 11y^3)$

27. $(x + 2)(x - 2)(x^2 + 4)$

29. $(11, -6)$