

# Algebra One Even Answers

**PS 99:** 2] 75 mph      4]  $N_N = 250, N_Q = 200$       6] -7, -6, -5, -4

8]  $3\sqrt{7}$       10a]  $-\frac{5}{3}$       b]  $\sqrt{34}$       12a]  $h(x) = x$       b]  $f(x) = x^3$

12c]  $g(x) = -x^3$       d]  $g(x) = x^2$       e]  $k(x) = -x^2$       14]  $\frac{-(x+7)(x+2)}{(x-3)}$

16a,b,d] Rational      16c] Irrational      18a]  $y = 4$       b]  $y = -x - 3$

20]  $364\sqrt{2}$       22] (3, -1)      24]  $5 \times 10^{-9}$       26] -10

28a]  $2a + 1$       b] 81      30]  $960 \text{ m}^3$

**PS 101:** 2] 15 miles      4] -8, -6, -4      6a]  $\frac{6}{11}$       b]  $\frac{9}{16}$       8]  $\frac{p+2x+6}{(x+3)(x-3)}$

10a] 1.4142      b] 0.67      c] 4000      12a]  $y = -2$       b]  $y = -2x$       14] B

16]  $\frac{x+10}{x+7}$       18a,b] Irrational      c,d] Rational      20]  $18\sqrt{15} + 15$

22]       24]  $\frac{3}{4}$       26]  $\frac{5p-4x}{3-x^2}$

28]  $\frac{a^9}{x^2}$       30]  $288 \text{ m}^3$

**PS 102:**

2]  $N_R = 40, N_W = 12$

4]  $-10, -9, -8, -7$

6]  $\frac{1}{16}$

8]



10]

$$\frac{4x + 21}{(x + 4)(x - 4)}$$

12a] 2.236 b] 3000 c] 572.06

14]  $\sqrt{146}$

16a]  $g(x) = -|x| + 1$  b]  $k(x) = |x|$  c]  $h(x) = 2x - 1$  d]  $p(x) = -\frac{1}{2}x + 1$

16e]  $f(x) = x^2$

18]  $x + 10$

20]  $D = \{x \in \mathbb{R} / -4 \leq x < 5\}$

22]  $x^2 - x$

24]  $(2, 5)$

26]  $2 \times 10^{62}$

28]  $\frac{3}{5}$

30]  $660 \text{ ft}^2$

**PS 103:**

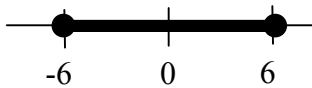
2] 8 hr.

4]  $N_c = 15, N_b = 10$

6] 460

8] 6

10]



12]

$$\frac{10a + 8}{(a - 2)(a + 2)}$$

14a] 1.7321 b] 0.167 c] 1100

16a]  $y = 4$  b]  $y = -\frac{1}{3}x - 3$

18] B

20]  $x = \pm \frac{9}{2}$

22]  $x^2 - 7x + 49 - \frac{347}{x + 7}$

24]  $(2, 0)$

26a]  $1 - x$

b]  $\frac{1}{4}$

28] 48

30]  $720 \text{ m}^3$