

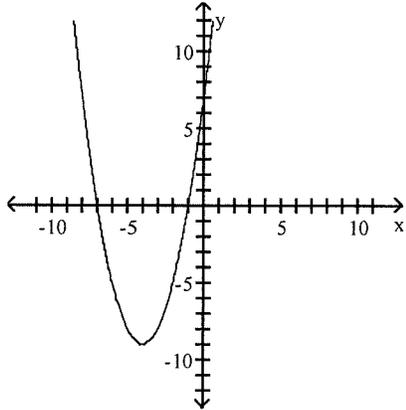
Answer Key

Testname: 1105 TEST 2 PRACTICE

1) (a) $x < -8$; (b) $x > 12$; (c) $x \geq 2$

2) $C(x) = 610 + 35x$

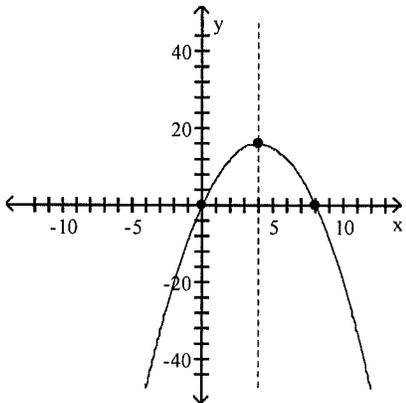
3)



4) $(-1, 4)$; $x = -1$

5) vertex $(4, 16)$

intercepts $(0, 0)$, $(8, 0)$



6) \$686

7) 59 ft by 59 ft

8) length: 36 feet, width: 18 feet

9) $f(x) = -x^2 + 2x + 8$

10) $f(x) = x^2 + 2x - 2$

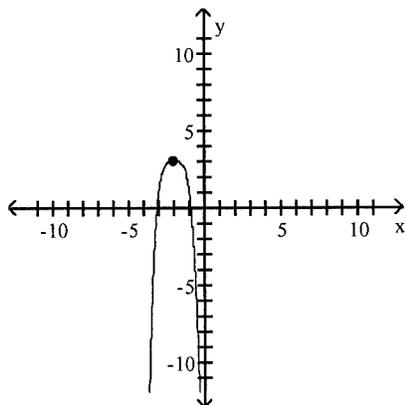
11) No; x is raised to the negative 5 power

12) No; x is raised to non-integer $3/2$ power

Answer Key

Testname: 1105 TEST 2 PRACTICE

13)



14) $f(x) = x^3 + 9x^2 - x - 9$ for $a = 1$

15) $f(x) = x^3 - 16x + 3x^2 - 48$ for $a = 1$

16) D

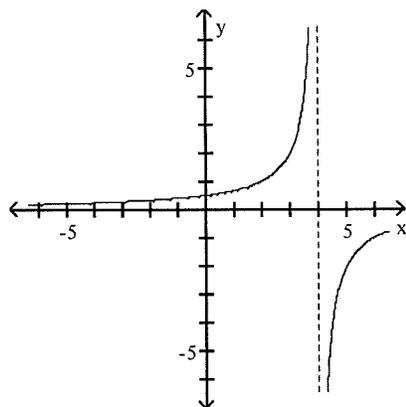
17) x-intercepts: -3, -2, 2; y-intercept: -12

18) $\{x \mid x \neq -2, x \neq 2\}$

19) all real numbers

20) $\{x \mid x \neq 3\}$

21)



22) $x = -5, x = 5$

23) none

24) $y = 8$

25) none

26) $y = -1$

27) $y = x - 15$

28) $\left(0, \frac{15}{8}\right)$

29) D

30) $y = -\frac{3}{2}x + 12$, where x is any real number

or $\{(x, y) \mid y = -\frac{3}{2}x + 12, \text{ where } x \text{ is any real number}\}$

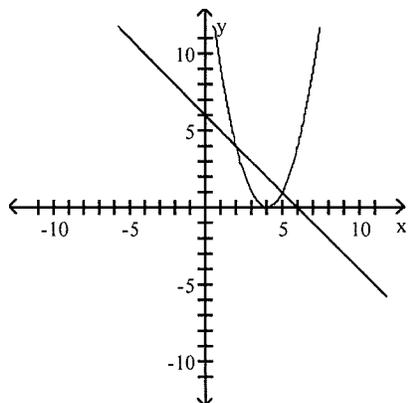
31) $x = -4, y = 0; (-4, 0)$

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Testname: 1105 TEST 2 PRACTICE

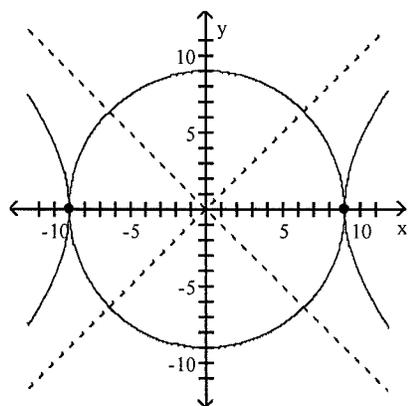
32) $x = 18, y = \frac{1}{2}; \left(18, \frac{1}{2}\right)$

33)



(2, 4), (5, 1)

34)

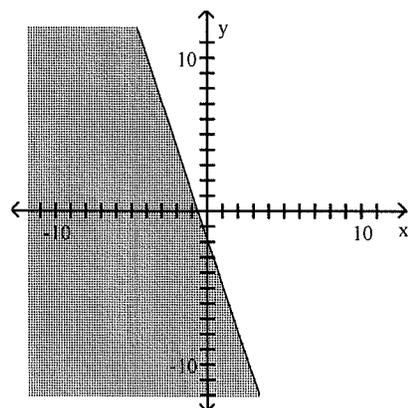


(9, 0), (-9, 0)

35) $x = \frac{3}{2}, y = 6; x = -\frac{1}{3}, y = -\frac{7}{3}$

or $\left(\frac{3}{2}, 6\right), \left(-\frac{1}{3}, -\frac{7}{3}\right)$

36)



Answer Key

Testname: 1105 TEST 2 PRACTICE

37)

