

1-33. $y = 3x - 1$

1-34. See below.

a. $f(14) = 41$

b. $f(-10) = -31$

c. $x = \frac{25}{3}$; Only one possible input

1-35. See below.

a. $f(x) = \sqrt{x}$

1-36. See below.

a. 10

b. 147

c. 5

d. no output because you cannot take the square root of a negative number

e. -5

f. 10 or -10

g. no input will yield a negative absolute value

h. $\frac{81}{2}$ or 40.5

i. 2

1-37. See below.

a. $g(1) = 1$

b. $g(-1) = -2$ and $g(0) = -1$

c. -2; no

1-38. See below.

a. 8

b. 10

c. -2

d. no real solution

1-39. See below.

a. 2

b. 8

c. 2^t

1-40. no

See below.

a. $-\frac{7}{10}$

b. $-2\frac{2}{3}$

c. $3\frac{1}{3}$

d. -3

1-42. See below.

a. $a = 123^\circ, b = 123^\circ, c = 57^\circ$

b. all = 98°

c. $g = h = 75^\circ$