Back to the Basics Answer Key

1) X = -1 or 1

2) Answers can vary. One example is 196 X 23 = 4508

3) $29^2 = 841$

4) 17^3= 4913

5) (3.6, -4.8), (6, 0), (2.57, -3.43)

6) The first equation appears wider, because the coefficient on x^2 is smaller

7)

X	Y
-9	-44
-8	-40
-7	-36
-6	-32
-5	-28
-4	-24
-3	-20
-2	-16
-1	-12
0	-8
1	-4

8) The table of values will show that a whole number show values for y in the Y axis, when X is a multiple of 7

X	Y
7	-1
8	-0.429
9	0.1429
10	0.7143
11	1.2857
12	1.8571
13	2.4286
14	3

9) Answers will vary. One example is below.

X	Y
1	2
2	11
3	20
4	29
5	38

10) B =$\sqrt{405}$, which is approximately equal to 20.124

11)

If the ladder is…	Then the distance is…
15 feet	9 feet
13 feet	5 feet
12 feet	0 feet

12) X = 16

13)

If X is equal to ..	Then Y is equal to..
-5	14
-8	20
14	-24

If Y is equal to ..	Then X is equal to..
4	0
0	2
-9	6.5 or 26/4 or 13/2

14) Y = -2X +4

X	Y
-4	12
-3	10
-2	8
-1	6
0	4
1	2
2	0
3	-2
4	-4
5	-6
6	-8

15) 2 seconds

16) 225 square inches

17) $188 total for admission

18) F = 7.75 + .5

19) G = $22.50 + $4.24X

If X = 8, then G = $56.42

20)

X	Y
1	-3
2	-12
3	-29
4	-54
5	-87
6	-128