

Section 14 Answers

Who Is An Expert at Catching Small Green Vegetables?

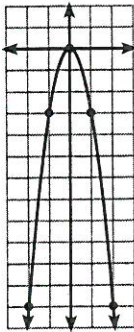
1.

x	y
2	12
1	3
0	0
-1	3
-2	12



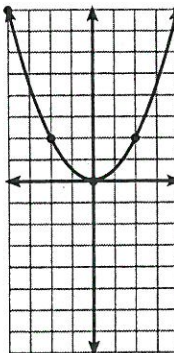
2.

x	y
2	-12
1	-3
0	0
-1	-3
-2	-12



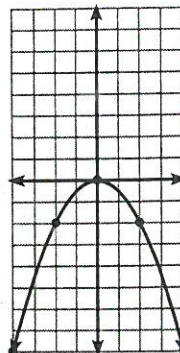
3.

x	y
4	8
2	2
0	0
-2	2
-4	8



4.

x	y
4	-8
2	-2
0	0
-2	-2
-4	-8



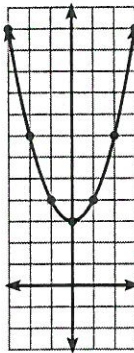
5.

x	y
3	6
2	1
1	-2
0	-3
-1	-2
-2	1
-3	6



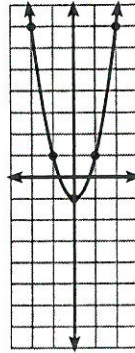
6.

x	y
3	12
2	7
1	4
0	3
-1	4
-2	7
-3	12



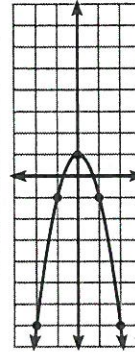
7.

x	y
2	7
1	1
0	-1
-1	1
-2	7



8.

x	y
2	-7
1	-1
0	1
-1	-1
-2	-7



A TRAP PEAS ARTIST

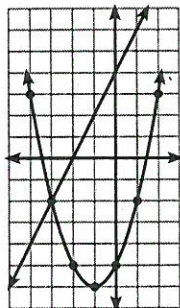
14.1

LINEAR to QUADRATIC

1. $y = 2x + 4$

a.

x	y
0	4
1	6
-3	-2



b. slope = 2

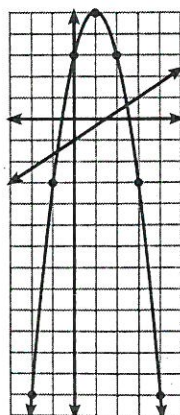
y-intercept = 4

x-intercept = -2

c. graph; solution

3. $y = \frac{2}{3}x - 1$

x	y
0	-1
3	1
-3	-3



b. slope = $\frac{2}{3}$

y-intercept = -1

x-intercept = 1.5

c. $\frac{3}{2}$

2. $y = x^2 + 2x - 5$

a.

x	y
-4	3
-3	-2
-2	-5
-1	-6
0	-5
1	-2
2	3

b. $x = -1$

c. It is the x-coordinate of the vertex.

4. $y = -2x^2 + 4x + 3$

a.

x	y
-2	-13
-1	-3
0	3
1	5
2	3
3	-3
4	-13

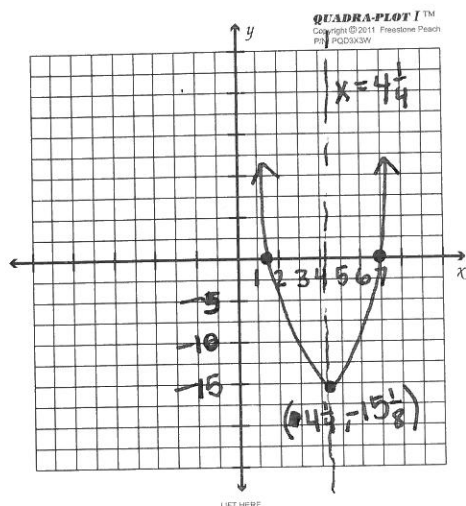
b. $x \approx -1.7$

$x \approx 3.7$

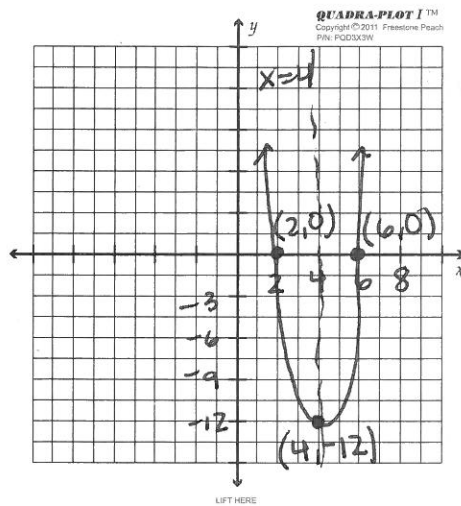
14.2

Day 3

8.



14.



16. a.) -3,5
b.) $-\frac{3}{8}$

c.) $y = -\frac{3}{8}(x+3)(x-5)$