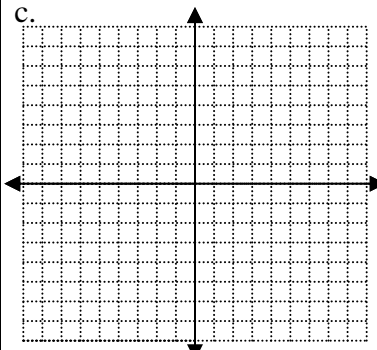


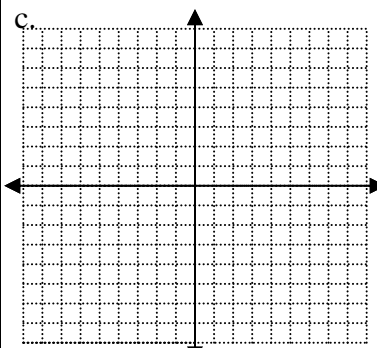
CORRECTIVE ASSIGNMENT

SKILLZ

1. Fill in the missing representation of the given function.

VERBALLY	ALGEBRAICALLY	NUMERICALLY	GRAPHICALLY										
Bob has 8 sodas and drinks four every three hours.	a.	b. <table border="1" style="margin: 10px auto;"> <thead> <tr> <th>Time (hours)</th> <th>Sodas (# cans)</th> </tr> </thead> <tbody> <tr> <td>2</td> <td></td> </tr> <tr> <td>6</td> <td></td> </tr> <tr> <td>-3</td> <td></td> </tr> <tr> <td></td> <td>2</td> </tr> </tbody> </table>	Time (hours)	Sodas (# cans)	2		6		-3			2	c. 
Time (hours)	Sodas (# cans)												
2													
6													
-3													
	2												

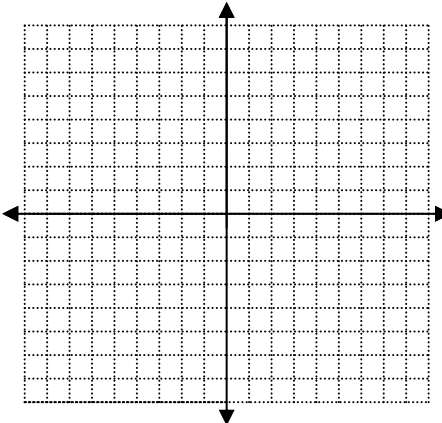
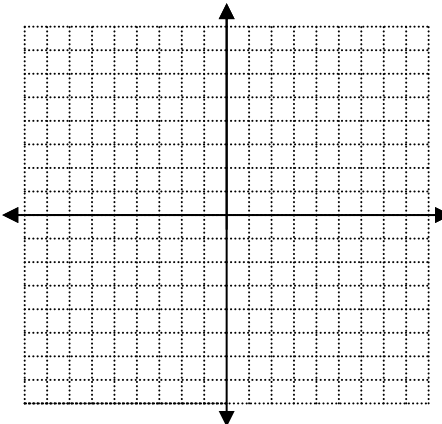
2. Fill in the missing representation of the given function.

VERBALLY	ALGEBRAICALLY	NUMERICALLY	GRAPHICALLY										
a.	b.	<table border="1" style="margin: 10px auto;"> <thead> <tr> <th>Time (days)</th> <th>Height (cm)</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>8</td> </tr> <tr> <td>6</td> <td>20</td> </tr> <tr> <td>9</td> <td>29</td> </tr> <tr> <td>18</td> <td>56</td> </tr> </tbody> </table>	Time (days)	Height (cm)	2	8	6	20	9	29	18	56	c. 
Time (days)	Height (cm)												
2	8												
6	20												
9	29												
18	56												

3. Use the functions to answer the following: $f(x) = 2x^2 - 3x$ $g(x) = \frac{2}{3}x + 5$ $h(x) = |4 - 2x|$

a. $f(-4) =$	b. $g(x) = 20$ find x	c. $h(5) =$	d. $f(x + 2) =$
e. $f(3) =$	f. $f(-9) =$	g. $h(-2) =$	h. $f(2x) =$

4. Linear functions

Slope Intercept Form	Standard Form	Point Slope Form
<p>a. Write the equation of the line in slope intercept form that is perpendicular to $y = 2x - 5$ and contains $(-50,10)$</p>	<p>b. Graph $3x + 2y = 10$</p> 	<p>c. Write the equation of the line in point slope form that contains the points $(-50,-49)$ and $(35,53)$</p>
Slope Intercept Form	Standard Form	Point Slope Form
<p>d. Write the equation of the line in slope intercept form that is parallel to $y = \frac{1}{2}x + 3$ and contains $(40,-6)$</p>	<p>e. Graph $x - 3y = 12$</p> 	<p>f. Write the equation of the line in point slope form that has a slope of $\frac{3}{5}$ and contains the point $(40,-3)$</p>

5. Solve the following by the given method.

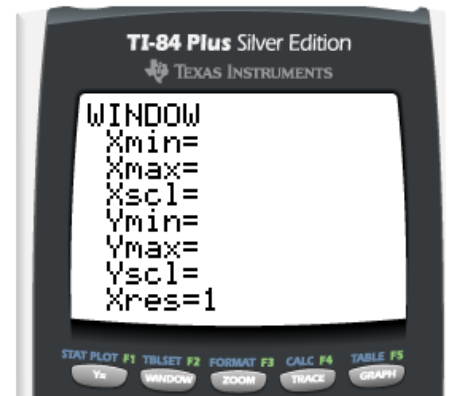
Factoring	Factoring	Graphing (Calculator)
<p>a. $x^2 - 2x = 80$</p>	<p>b. $2x^2 = 13x + 7$</p>	<p>c. $\frac{1}{2}x^2 - 3x - 27 = 0$</p>
Factoring	Factoring	Graphing (Calculator)
<p>d. $x^3 - 9x = 0$</p>	<p>e. $6x^2 - 35 = -11x$</p>	<p>f. $-0.7x^2 + 2.5x = -5$</p>

APPLICATIONS

6. Bob shoots a gun into straight up. The data represents the height of the bullet over time.

Time(sec)	1	6	9	12	15	19	21	24	26
Distance(ft)	470	2130	2760	3100	3158	2781	2400	1590	890

a. Graph the data with a friendly window. Record here



b. Use regression and write the equation of your model.

$$H(t) =$$

c. What does $H(7)$ mean? Find it.

d. Find the time at which the bullet will be 1600 feet in the air.

e. When will the bullet hit the ground?

7. The sides of a square are $(x + 4)$ units long.

a. Draw a picture of this square.

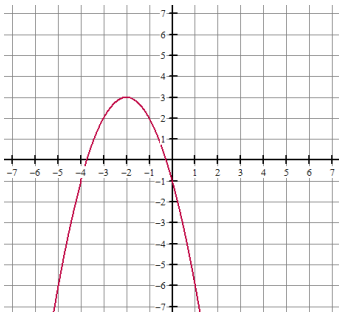
b. If $x = 12$, what is the area of the square?

c. If the area of the square is 121 units^2 , find x .

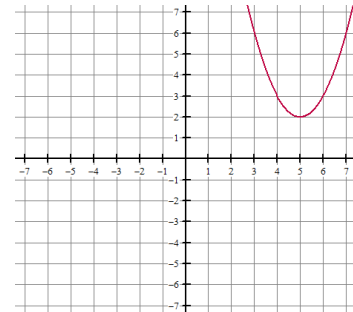
Review Skillz

Write the equation of the quadratic function in vertex form, $y = a(x - h)^2 + k$.

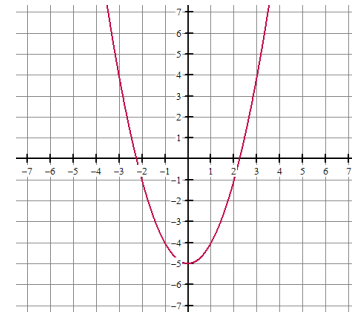
1.



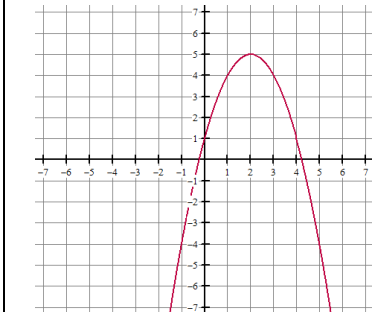
2.



3.



4.



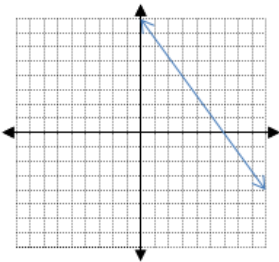
UNIT 1 CORRECTIVE ASSIGNMENT ANSWERS

1. a. $y = 8 - \frac{4}{3}x$

b.

Time (hours)	Sodas (# cans)
2	$\frac{20}{3}$
6	0
-3	12
$\frac{9}{2}$	2

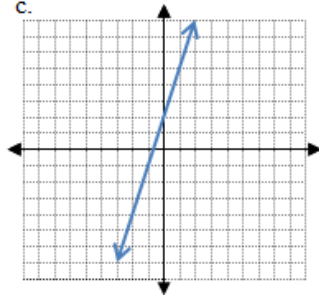
c.



2. a. A 2 cm tall plant grows 3 cm per day.

b. $y = 3x + 2$

c.



3. a. 44

b. 22.5

c. 6

d. $2x^2 + 5x + 2$

e. 9

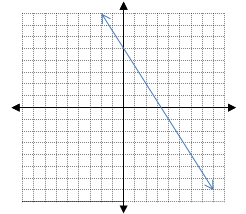
f. 189

g. 8

h. $8x^2 - 6x$

4. a. $y = -\frac{1}{2}x - 15$

b.



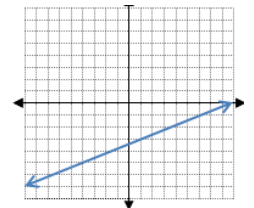
c. $y + 49 = \frac{6}{5}(x + 50)$

or

$y - 53 = \frac{6}{5}(x - 35)$

d. $y = \frac{1}{2}x - 26$

e.



f. $y + 3 = \frac{3}{5}(x - 40)$

5. a. $x = 10$ and -8

b. $x = -\frac{1}{2}$ and 7

c. $x = -4.937, 10.937$

d. $x = -3, 0, 3$

e. $x = -\frac{7}{2}$ and $\frac{5}{3}$

f. $x = -1.429$ and 5.319

6. a.

Xmin = 0

Xmax = 30

Xscl = 5

Ymin = 0

Ymax = 4000

Yscl = 500

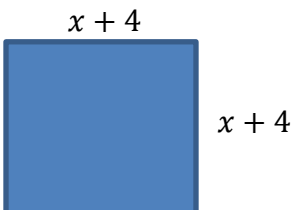
b. $H(t) = -15.898t^2 + 446.454t + 32.979$

c. At 7 seconds the bullet is 2379.2 feet in the air.

d. 4.112 seconds and 23.97 seconds

e. 28.157 seconds

7. a.



b. 256 units²

c. 7

REVIEW SKILLZ

1. $y = -(x + 2)^2 + 3$

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

3. $y = x^2 - 5$

4. $y = -(x - 2)^2 + 5$