

Lab Practice 1

a.



b. x -intercept $(2, 0)$
 y -intercept $(0, 4)$

x	y
0	-6
0.5	-4
1	-2
1.5	0
2	2

c.

X	Y_1
7	5
8	7
9	9
10	11
11	13
12	15
13	17

$X=1$

Lab Practice 2

a. $A \times B = \begin{bmatrix} -2 & 10 \\ -2 & -35 \end{bmatrix}$

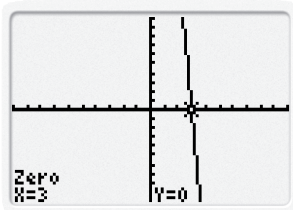
b. $B^{-1} = \begin{bmatrix} 0 & -\frac{1}{3} \\ -\frac{1}{5} & -\frac{1}{15} \end{bmatrix}$

c. -6

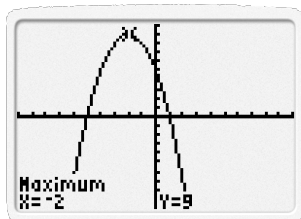
d. $C = \begin{bmatrix} 1 & 0 & 0 & 10 \\ 0 & 1 & 0 & -3 \\ 0 & 0 & 1 & -1 \end{bmatrix}$

Lab Practice 3

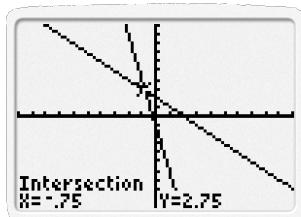
a. $x = 3$



b. $(-2, 9)$

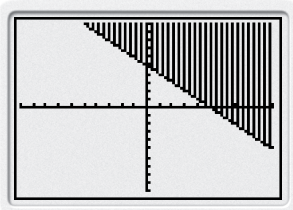


c. $(-.75, 2.75)$

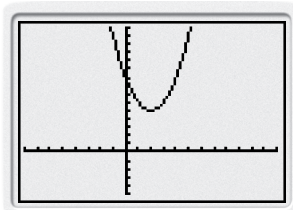


Lab Practice 4

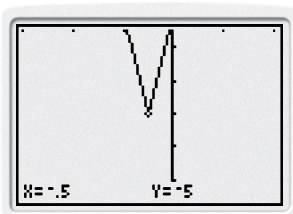
a.



b.

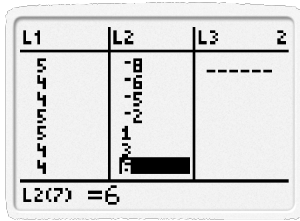


c.

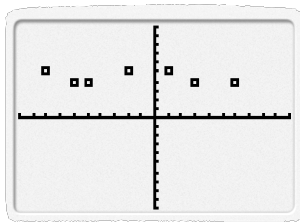


Lab Practice 5

1.

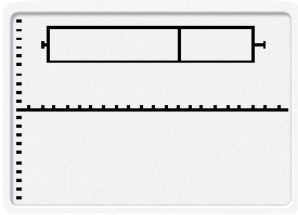


2.



Lab Practice 6

a.



b. 1255

Lab Practice 7

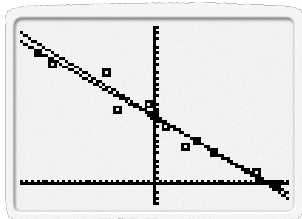
- a. 3,991,680
- b. 9240
- c. 792
- d. 1540

Lab Practice 8

a. $y = -0.48x + 10.69$

b. $y = -0.52x + 11.01$

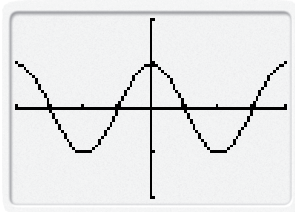
c.



Lab Practice 9

- a. -1
- b. 0.998
- c. Both are 1.

d.



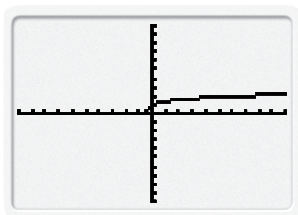
Lab Practice 10

1. 5.42

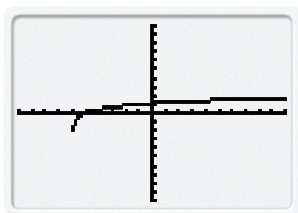
2. 0

3. 1.13

4.



5.



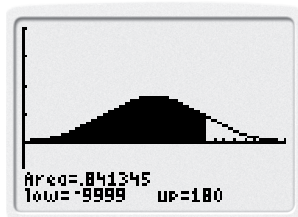
Lab Practice 11

- a. $(0.11132, 0.13491)$
- b. $(36,859, 40,293)$
- c. $(469.22, 550.78)$

Lab Practice 12

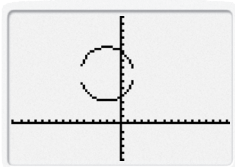
- a. 0.1179
- b. 0.9998

Sample:



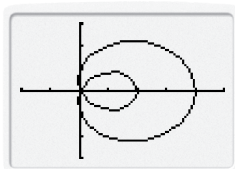
Lab Practice 13

a.



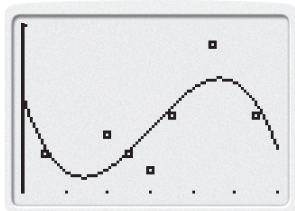
$$\begin{aligned} -10 &\leq x \leq 5; \\ -2 &\leq y \leq 14 \end{aligned}$$

b.



Lab Practice 14

1. $R^2 = 0.577;$
 $y = -0.042x^3 + 0.770x^2$
 $\quad - 3.383x + 5.999$



2. $R^2 = 0.969;$
 $y = 0.212 + 0.917\ln(x)$