Corrective Assignment

NAME:_____

DATE:_____

Use the story and graph to write fill in the table for each. Answer the questions.

1. Owen and Rachel are day traders. The value of their stocks in one afternoon is shown below.
   t represents the time since 12 o'clock. For example, $t = 2$ represents 2 hours since 12 o'clock or 2 o'clock.

OWEN

time since noon (hours)	value of stocks ($)
4	
7	
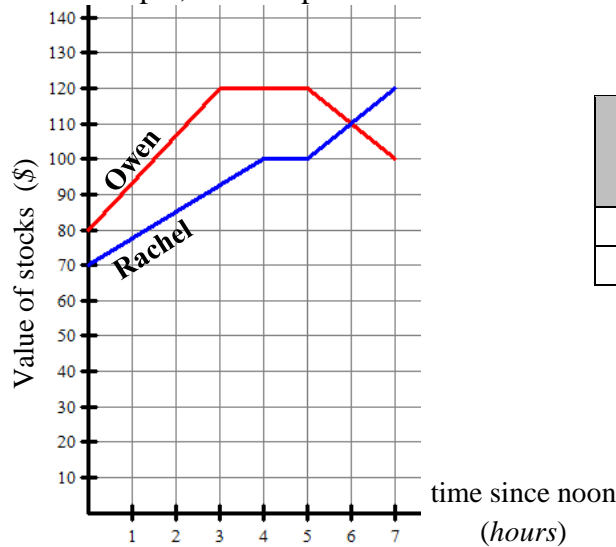
RACHEL

time since noon (hours)	value of stocks ($)
0	
5	

a) Whose stock is worth more at 4 o'clock? By how much?

b) Find the point of intersection. What does it represent?

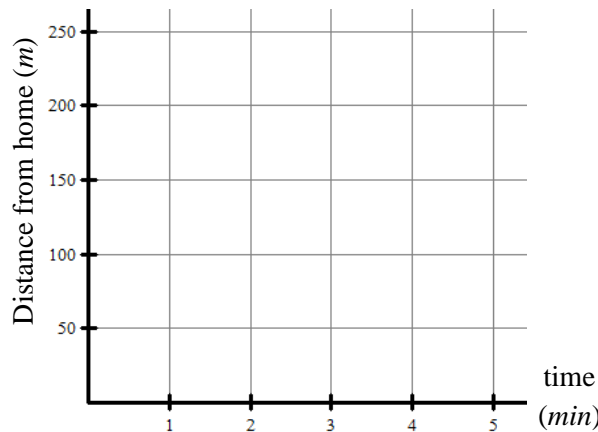c) Find Owen's y-intercept. What does it represent in this situation?

Use the equations to fill in the table and create a graph to model the situation. Answer the questions.

2. Bob and Sarah are brother and sister. Bob is walking home from the library. Sarah is walking to the library.

BOB

$d = 250 - 50t$

_____ (_____)	_____ (_____)
0	
1	
2	

SARAH

$d = 75t$

_____ (_____)	_____ (_____)
0	
1	
2	

a) Label each line above as Bob or Sarah. Explain how you know which is which.

b) Find the point of intersection. What does it represent?

c) What is Bob's x-intercept? What does it represent?

5. $y = -x^2 + 6x - 4$

x	y
0	
1	
2	
3	
4	
5	
6	
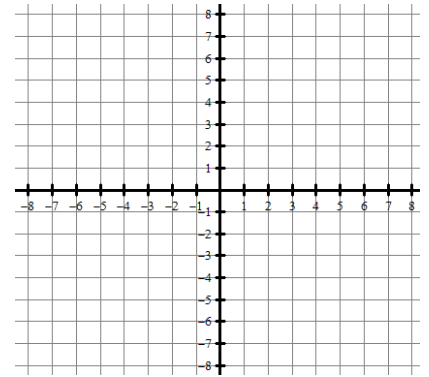
6. $y = |2x - 4| - 7$

x	y
−5	
−2	
1	
2	
4	
5	
7	
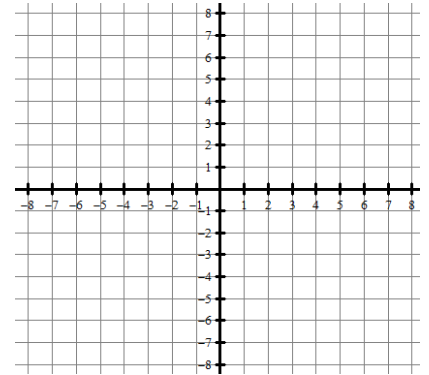
ANSWERS TO CORRECTIVE ASSIGNMENT

1.

Owen

time since noon (hours)	value of stocks ($)
4	120
7	100

Rachel

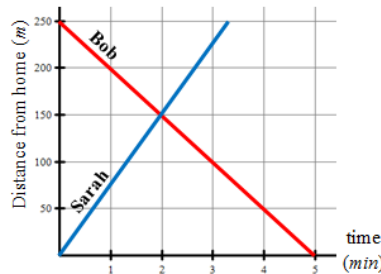| time since noon (hours)	value of stocks ($)
0	70
5	100

a) Owen, by 20 dollars
b) (6,110) at 6 o'clock both of their stocks were valued at 110 dollars.
c) 80 dollars, at time zero which is 12 o'clock Owen's stock was worth 80 dollars at noon.

2.

Bob

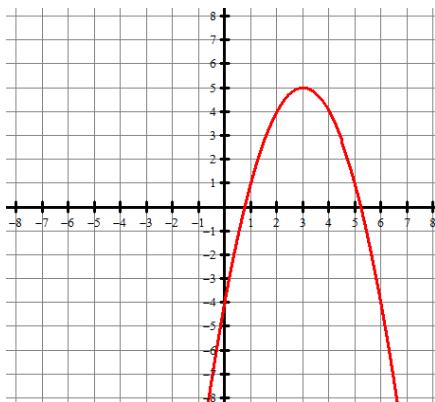| time (min)	Distance from home (m)
0	250
1	200
2	150

Sarah

time (min)	Distance from home (m)
0	0
1	75
2	150

a) Bob started 250 meters away. Sarah started at 0 meters away.
b) (2,150) at 2 minutes they are both 150 meters from home.
c) 5 minutes, it took 5 minutes for Bob to walk home from the library.

3.

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

4.

x	y
−5	7
−2	1
1	-5
2	-7
4	-3
5	-1
7	3