14.1

The graph shows distance from home as a function of time for Laura's trip to the mall. Write a <u>brief</u> description of her trip that explains all features of the graph.

A. $\frac{distance}{from \ home}$ B. C. time

D.

Е.

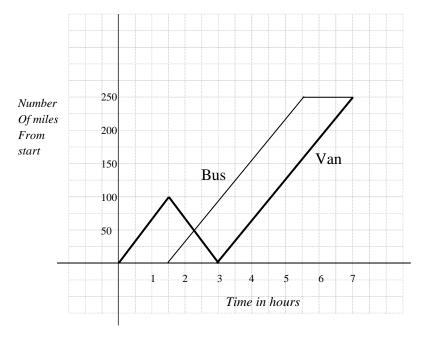
14.3

For this situation, make a distance-time graph and a speed-time graph. Align them so the corresponding pieces can be compared. (Assume cartoon-like changes in speed.)

Allison rode her bike at a leisurely pace until she got a flat. She stopped to fix the flat and it took her twice as long as the amount of time she had spent riding. When she resumed riding, she rode at her fastest speed to get to her friend's house in time to watch American Idol.

time	
time	
	time

14.4 Determine whether each statement is true or false, based on the information shown in the graph.



- b) The van turned around after 1.5 hours and went back to where it started. True false
- d) The bus traveled at a rate of 60 mph. True false
- e) The van traveled a total of 450 miles. **True false**

4	_	-
	•	
	~7.	

The movie theater is filled to capacity with 200 people. When the movie is over, people will leave at a rate of 30 per minute. Describe in words the relationship between the number of people remaining in the theater and time.

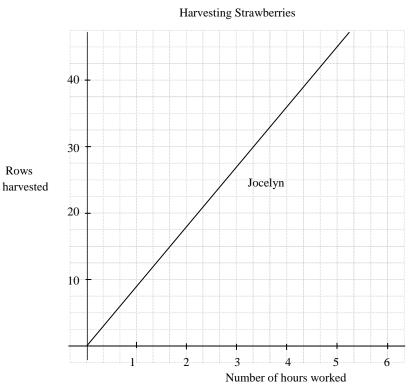
Eill in the table with date to describe this relationship	minutes	people
Fill in the table with data to describe this relationship.		
Use algebraic symbols to describe this relationship. Be sure to label your		
variables.		

What is the y-intercept and what does it mean about time and the theater? $(0, ___)$

What is the x-intercept and what does it mean about time and the theater? $(\underline{\hspace{1cm}},0)$

15.2

Jeremy and Jocelyn are helping to harvest strawberries. Jeremy can harvest 7 rows/hour and Jocelyn can do 9 rows/hour. Jeremy started before Jocelyn and already has 10 rows completed when she begins. The graph for Jocelyn's number of rows harvested is already drawn. On the same set of axes, draw a graph to represent Jeremy's work.



Write an equation to represent Jeremy's number of rows harvested as it relates to hours worked alongside Jocelyn. Identify your variables.

Show your work to determine the point of intersection of the two lines.

Hours.	D arrea.	
HOURS.	Rows.	

Explain the meaning of the point of intersection as it relates to Jeremy and Jocelyn.

		it runs at 90 ft/s, but gives Turtle run when Rabbit catches up with	
		A	answer:
Circle the meth	nod you used to solve:		
table	graph	algebra equations	quantitative reasoning
attending Purd	lue long enough to cor	oleted 20 credit hours with a GPA mplete 15 credit hours with a GF eps of your work. Do not round	PA of 2.4. What is her
		Overa	ll GPA:
	=5x+2 and $h(x)$ is dum. Give the output i	lefined by the process of adding f 2 is the input to:	3 to the input and then
a) first	h(x), then $g(x)$		
		A	answer:

b) first g(x), then h(x)

Answer: _____

15.6

Use the order of operations to evaluate:

$$4-15 \div 3 + 2^5 - (8-9)^2 + 17$$

$$(3^2)^3 - 7 \cdot (5-1)^2 + 3\frac{2}{3} \cdot 4\frac{1}{2}$$

27.1

For the experiment of tossing a pair of dice, determine which of the following could be considered outcomes. For those, circle the word "outcome." Otherwise, circle the word "event."

a) Getting a sum of ten	OUTCOME	EVENT
b) Getting doubles	OUTCOME	EVENT
c) Getting two 3s	OUTCOME	EVENT
d) Getting a sum of twelve	OUTCOME	EVENT

27.2

On Elm Street, there are 27 houses of which 8 do <u>not</u> have a garage. Morgan lives on Elm Street. Determine the odds in favor of Morgan living in a house that <u>has</u> a garage.

- A. 8:19
- B. 19:27
- C.8:27
- D. 27:35
- E.19:8