

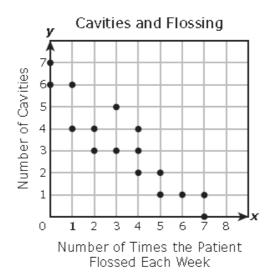
Course Verification Sheets

This is not your 2014-2015 schedule.

You cannot drop an AP course until after the first 6 weeks.

If you do not return this completed form to your counselors by Friday May 9th, you cannot change your schedule for any reason.

A dentist made the scatterplot below to show the number of cavities her patients had as it relates to the number of times they flossed their teeth each week.



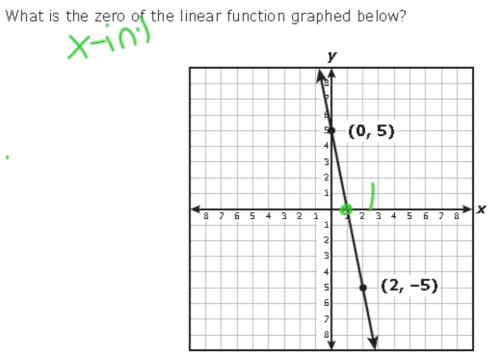
Which of the following best describes the correlation for the data?

A Positive correlation

C Negative correlation

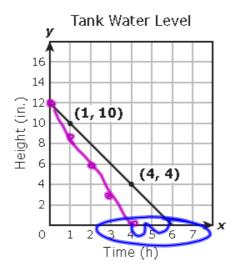
B Nonlinear correlation

D No correlation



Record your answer and fill in the bubbles on your answer document.

The graph below shows the water level in a tank being drained at a constant rate.



If the rate at which the tank is drained is changed to 3 inches per hour and the initial water level stays the same, how would the time it takes to empty the tank be affected?

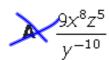
F It would take 4 fewer hours.

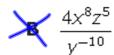
t would take 1.5 more hours.

H I would take 2 fewer hours

It would take 2 more hours.

Which expression is equivalent to $\frac{12x^6y^{-4}z^2}{3x^2y^{-6}z^3}$?





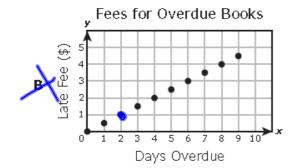
c
$$\frac{9x^4y^2}{7}$$

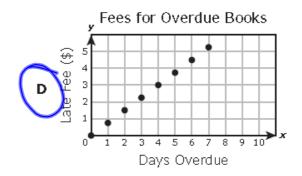
D
$$\frac{4x^4y^2}{z^2}$$

The late fee for overdue books at a library is \$0.25 per day per book, with a maximum late fee of \$5.00 per book. Which graph models the total late fee for 3 books that were checked out on the same day and are overdue?









Practice

Which ordered pair is the solution to the system of equations below?

$$x + 3y = 7$$
$$x + 2y = 10$$

2. Members of a senior class held a car wash to raise funds for their senior prom. They charged \$3 to wash a car and \$5 to wash a pick-up truck or a sport utility vehicle. If they earned a total of \$275 by washing a total of 75 vehicles, how many cars did they wash?

25 34

В

С 45

D 50

3. Manuel and Felicia are comparing how much money they have. Manuel states that he has \$250 and saves \$150 per week. Felicia states that she has \$1,650 and spends \$200 per week. Which system of equations can be used to determine x, the number of weeks, and y the amount of money at the end of the week?

$$A = y = 250x + 150$$
$$y = 1650x - 200$$

y = 250 + 150 x

$$y = 1650 - 200 x$$

y = 250 - 150xy = 1650 + 200 x

y = 250 - 150xy = 1650 - 200x

Given the two equations 2x + 3y = 12 and $\sqrt{6}$

2x - y = 4, what is the value of x + y?

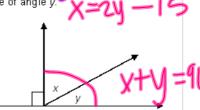
To solve the linear system below, which substitution of unknowns is proper?

$$3x - 7y = 12$$

$$5x - y = -16$$

- Substitute 5x 16 for y in the first equation.
- Substitute 5x + 16 for y in the first equation.
- Substitute 5x + 12 for y in the first equation.
- Substitute 7y 4 for x in the second equation.

The measure of angle x is 15° less than twice the measure of angle y



Which system of equations will determine the measure of each angle?

$$\begin{array}{c}
 x + y = 90 \\
 x = y - 15
 \end{array}$$

$$\begin{array}{c}
 x + y = 90 \\
 x = 2y - 15
 \end{array}$$

$$\begin{array}{c}
 2x = 90 \\
 x = 2y - 15
 \end{array}$$

Which point is a solution of the system of linear inequalities?

D.

$$y < -2x$$
$$y > 3x + 5$$

8. At what point do the lines represented by the equations 2x + y + 1 = 0 and 4x + y - 3 = 0intersect?

(2,5)

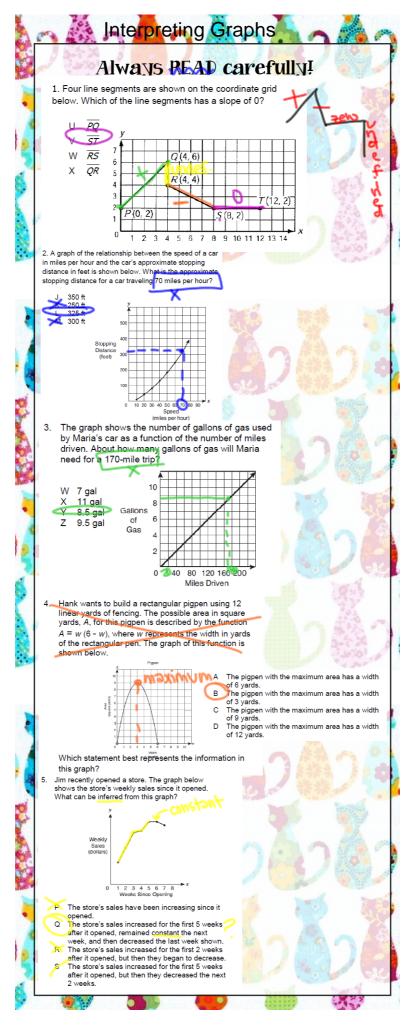
В (2, -5)

(-1, 1)(1, -1)

Julie is planning to put a fence around a rectangular garden. The length of the garden is 3 feet more than 1.5 times its width. If Julie uses a total of 36 feet of fencing amound the edge of the garden, what is the ength of the garden?

6 ft

В 13.2 ft



Mixed Review

Instructions: Showdown

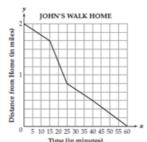
At your table: Number yourselves off 1, 2, 3, and 4.

All number 2's - come get whiteboard markers to show work on yo<mark>ur tab</mark>le.

You need at least one device with the capability to scan QR codes.

Practice

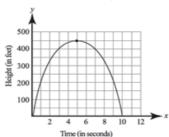
 John is 2 miles away from his house. The graph below shows the time it takes John to walk home.



According to the graph, during what time interval is John walking the fastest?

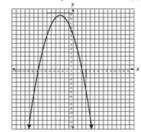
The graph below represents the relationship between the term, in seconds, an arrow is shot upward and its height, in feet.

y



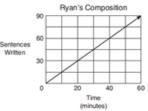
From the time it was shot, how long does it take for the arrow to return to the ground, and what is its maximum height?

- A 5 seconds, 450 feet
- B 10 seconds, 450 feet
- C 10 seconds, 500 feet
- D 450 seconds, 10 feet
- 3. The graph of $f(x) = -\frac{1}{2}x^2 3x + 8$ is shown below. Which of the following statements appears to be true?



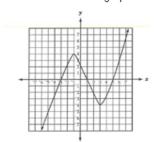
- A The vertex is at (-3, 12)
- B The axis of symmetry is x=-3.
- C The zeros of the related function are -8, 2, and 8.
- D The y-intercept is (8,0)

Ryan is writing a composition for homework. He
decides to keep track of the number of
sentences he writes compared to the time in
minutes he works. The graph below shows the
data he collected.



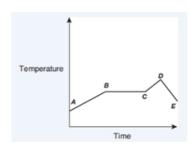
At what rate does Ryan write his composition?

- A 0.5 sentence per minute
- B 1 sentence per minute
- C 1.5 sentences per minute
- D 2 sentences per minute
- 5. Look at the function that is graphed below.



What are the zero(s) of the function?

6. The graph below shows the temperature in a town over the course of one day.



During what time period did the temperature increase at the greatest rate?