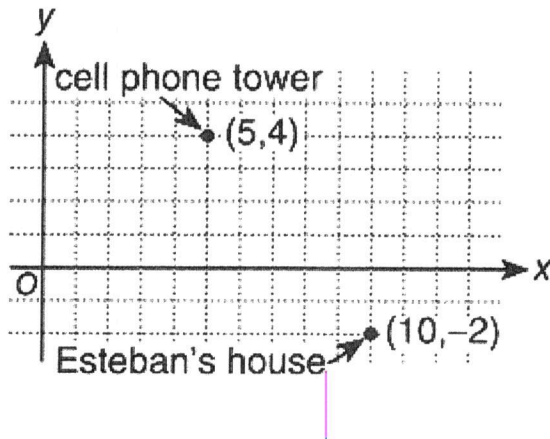


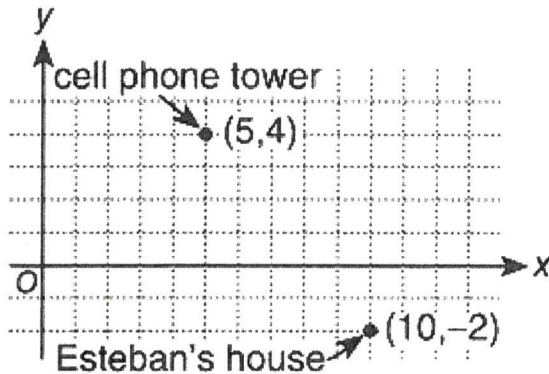
2. A map of Nelson County is laid out in the standard  $(x,y)$  coordinate plane below, where the center of the county is at  $(0,0)$ . A cell phone tower is at  $(5,4)$ , and Esteban's house is at  $(10,-2)$ . Each coordinate unit represents 1 mile. The tower's signal range is 10 miles in all directions. How much land area, to the nearest 10 square miles, does the tower's signal range cover? \*



- ☐ A. 80
- ☐ B. 100
- ☐ C. 310
- ☐ D. 400
- ☐ E. 1,260

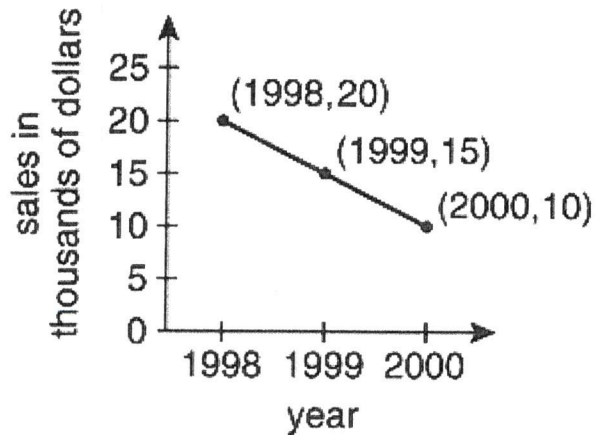
Day 4

3. A map of Nelson County is laid out in the standard  $(x,y)$  coordinate plane below, where the center of the county is at  $(0,0)$ . A cell phone tower is at  $(5,4)$ , and Esteban's house is at  $(10,-2)$ . Each coordinate unit represents 1 mile. The tower's signal range is 10 miles in all directions. The strength of the tower's signal to Esteban's house depends on the straight-line distance between his house and the tower. What is the straight line distance, in miles, between Esteban's house and the tower? \*



- ☐ A.  $\sqrt{11}$
- ☐ B.  $\sqrt{17}$
- ☐ C.  $\sqrt{29}$
- ☐ D.  $\sqrt{41}$
- ☐ E.  $\sqrt{61}$

4. The graph below models a constant decrease in annual licorice sales for Licorice Company, Inc., from 1998 through 2000. The points have been connected to illustrate the trend. Which of the following values is closest to the amount, in dollars, of the decrease per year? \*



- ☐ A. \$5,000
- ☐ B. \$6,667
- ☐ C. \$8,333
- ☐ D. \$10,000
- ☐ E. \$15,000

Day 7

5. A set is closed under a given arithmetic operation if performing the operation with any member(s) of the set always results in the same or another member of the set. For example, the set  $\{0,1\}$  is closed under multiplication, since all possible products ( $0 \times 0$ ,  $0 \times 1$ ,  $1 \times 0$ , and  $1 \times 1$ ) are also members of the set. Under which of the following operations is the set  $\{-1,1\}$  closed? \*

1 point

- ☐ A. Addition and subtraction
- ☐ B. Addition and multiplication
- ☐ C. Subtraction and multiplication
- ☐ D. Subtraction and division
- ☐ E. Multiplication and division

6. A student thinks that the sum of 4.3 and 8.4 is 12.7 because  $4 + 8 = 12$  and  $3 + 4 = 7$ . The student then adds 3.7 and 2.6 and gets 5.13 because  $3 + 2 = 5$  and  $6 + 7 = 13$ . Identify the mistake in the student's procedure, and explain why this procedure won't always work. \*

Your answer

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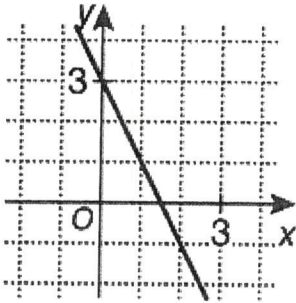
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Day 8

2. Functions A, B, and C are linear. Shown below are the graph of Function A in the standard (x,y) coordinate plane, a table of 5 ordered pairs belonging to Function B, and an equation for Function C. Based on their rates of change, place the functions in order from Least to Greatest. \*

1 point

Function A



Function B

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

Function C

$$y = 3$$

- ☐ A. Function A, Function B, Function C
- ☐ B. Function B, Function C, Function A
- ☐ C. Function A, Function C, Function B
- ☐ D. Function C, Function A, Function B
- ☐ E. Function C, Function B, Function A

3. The table below represents the number of episodes of a certain television series Jessica, Kev and Miriam watched last weekend. Kevin watched 2 fewer episodes than Jessica. Miriam watched  $\frac{1}{2}$  as many episodes as Kev. One of the following statements is NOT true. Which one?

1 point

\*

Name	Total number of episodes watched
Jessica	$j$
Kev	$k$
Miriam	$m$

- ☐ A. Jessica watched  $k+2$  episodes.
- ☐ B. Miriam watched  $k \times \frac{1}{2}$  episodes.
- ☐ C. Miriam watched  $k \times 2$  episodes.
- ☐ D. Kev watched  $m \times 2$  episodes.
- ☐ E. Kev watched  $j - 2$  episodes.

4. On a given day on a certain poultry farm, the relative frequencies of chickens, ducks, and geese that laid an egg or did not lay an egg are given in the table below. Two of the relative frequencies are given by letters. If it can be determined, what is the sum of the values of  $a$  and  $b$  in this table? \*

	Laid an egg	Did not lay an egg	Total
Chickens	$a$	0.33	1.00
Ducks	0.45	0.55	1.00
Geese	0.48	$b$	1.00

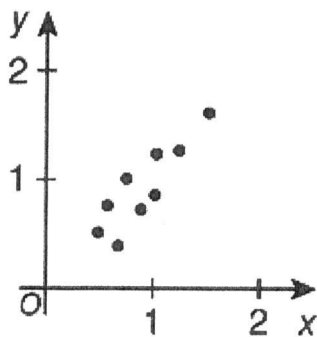
- ☐ A. 0.19
- ☐ B. 0.67
- ☐ C. 1.19
- ☐ D. 1.80
- ☐ E. Cannot be determined by the given information



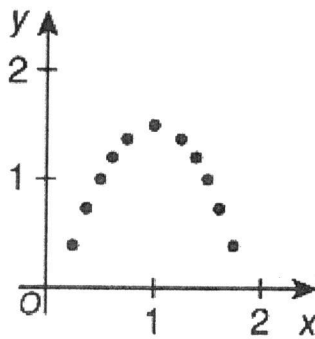
Day 9

5. Three scatterplots in the standard  $(x,y)$  coordinate plane are shown below. Check the boxes that best describe the pattern of its data.

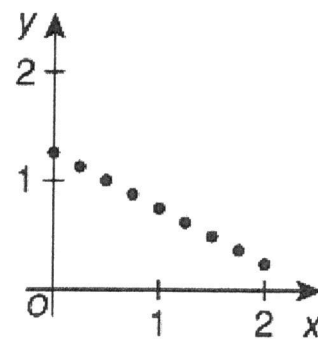
3 points



scatter plot A



scatter plot B



scatter plot C

	No association	Positive linear association	Negative linear association	Nonlinear association
Scatter plot A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Scatter plot B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Scatter plot C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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\* Required

Day 10

1. Explain why there are no solutions to the system of inequalities given below. \*

1 point

$$\begin{cases} y < -\frac{1}{2}x - 3 \\ y > -\frac{1}{2}x + 2 \end{cases}$$

Your answer



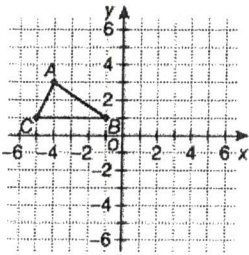
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1. Using the figure below, what would be the coordinates of  $B'$ ? \*

1 point

Triangle  $\triangle ABC$  shown in the standard  $(x, y)$  coordinate plane below, will be rotated  $90^\circ$  clockwise ( $C^\circ$ ) about the origin, and points  $A$ ,  $B$ , and  $C$  will map to points  $A'$ ,  $B'$ , and  $C'$  respectively.



- ☐ A. (1, 1)
- ☐ B. (-1, 1)
- ☐ C. (-1, -1)
- ☐ D. (6, 1)
- ☐ E. (1, -1)

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