Wednesday:

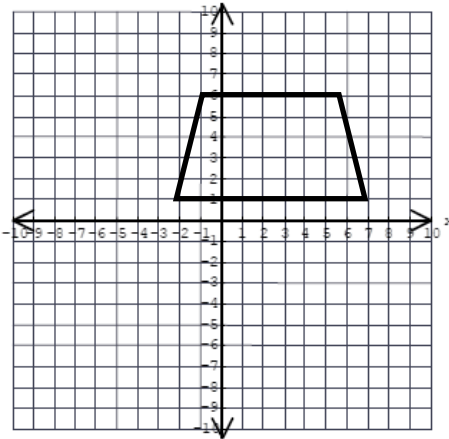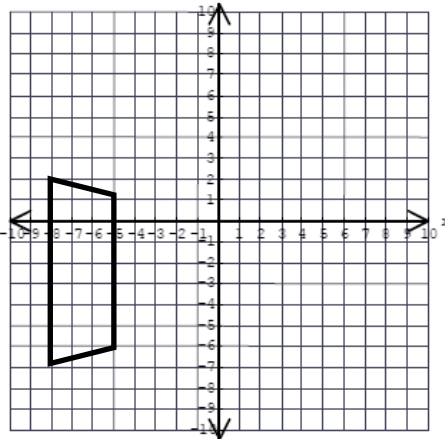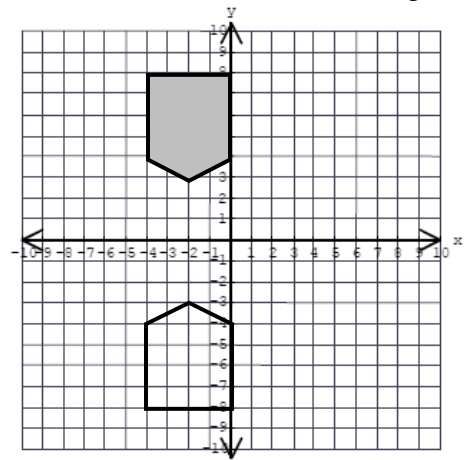**1.** Translate the figure 4 units left and 3 units down.

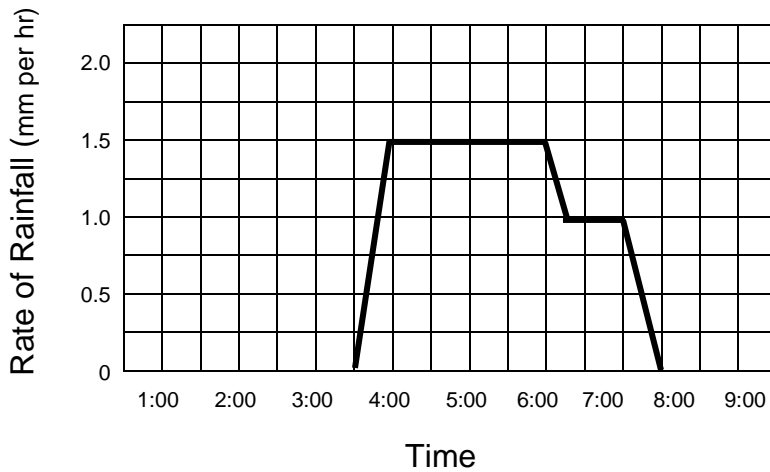**2.** Rotate the figure 90 degrees Clockwise.

3. Write the rule of the transformation of the shaded to non-shaded figure

Rule:_____

4. The graph shows the rate of rainfall, in mm per hour, one afternoon.

A. What time did it start to rain? _____

B. What was the rate of rainfall at 5:00?

_____

C. What happened to the rate of rainfall between 6:00 and 6:15?
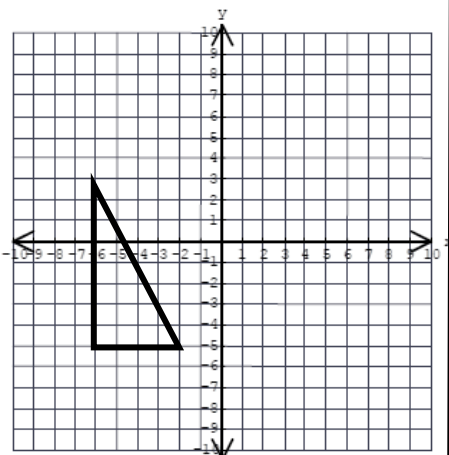
_____

D. How long did it rain? _____
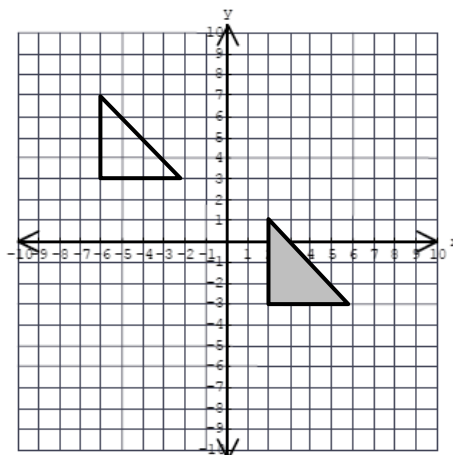
E. What time period did it rain the most?

_____

F. Make up a question about the graph:

Thursday:

1. Reflect the figure across the *x*-axis.

2. Write the rule of the transformation Of the shaded to non-shaded image.
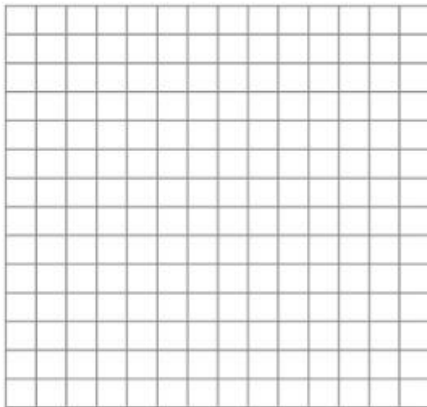
2. _____

3. Solve:

a. $-\dfrac{x}{2} + 9 = 14$

b. $3x - 7 = 7x + 19$

4. Fill in the table, find the rule, graph and answer the questions:

Time (minutes)	0	2	4	6
Distance away from home (miles)	5	8	11	14

Rule:_____

a. Interpret the slope in the context of this problem:
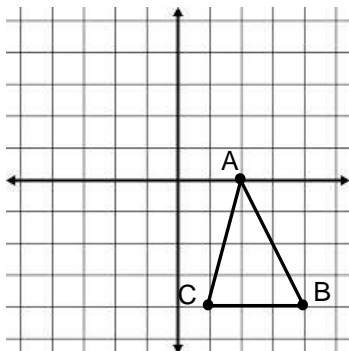
_____

b. Interpret the y-intercept (how can you start at 5 miles?):

_____

_____

c. How far will you be away from home after 10 minutes?

_____

d. How many minutes will have passed when you are 122 miles away?　　　　_____
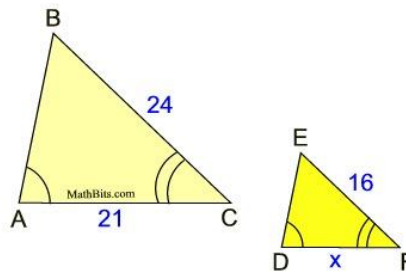
Friday:

1. Rotate the figure 180° then reflect over the x-axis

2nd Image Coordinates:
A": (　,　) B": (　,　) C": (　,　)

2. The triangles are similar. Find the missing side length. Look for a relationship first!.

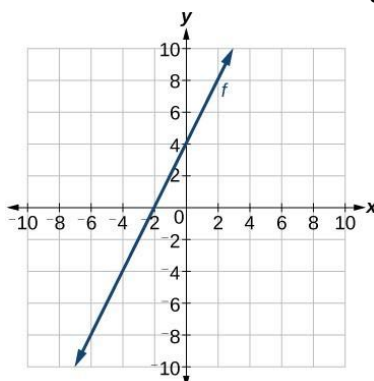**3.** Find the value of y for the given value of x:

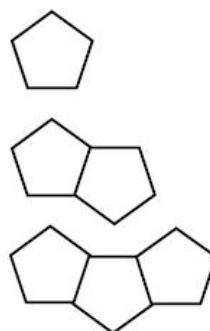a. $y = -3 + 2x$;　$x = -12$

b. $y = \frac{1}{2}x - 7$;　$x = -18$

c. $y = x^2 + 6$;　$x = 7$

4. Write the rule for the following linear functions:

a.

b. (Count the sides.)

c.

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