Date: _____ Hour: _____

Day 13: Review

Essential Question: Am I ready for my test tomorrow on data displays?

1. Use the two way table below to answer the questions.

Gender	Preferred Program			
	Dance	Sports	Movies	Total
Women	16	6	8	30
Men	2	10	8	20
Total	18	16	16	50

a) Complete the table To Down Num.

b) What percent of those surveyed preferred the dance program?

$\frac{18}{50} \approx 36\%$

c) What percent of men preferred the Sports program?

D N

$\frac{10}{20}$ 50%

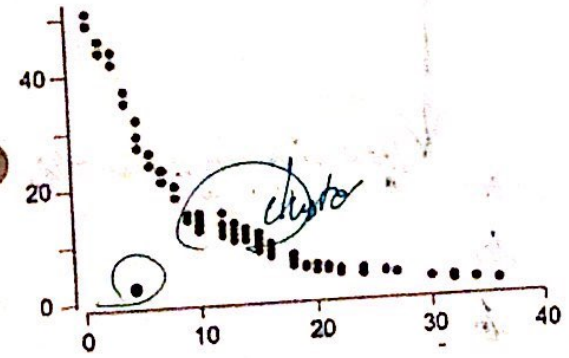
d) True or False: Men and women were equally likely to prefer the movies program. Explain.

What percent of men prefer the movies program? $\frac{2}{20}$

What percent of women prefer the movies program? $\frac{8}{30}$

D N

2. Use the scatterplot below to answer the questions.



a) Describe the correlation of the scatter plot.

As the IV increases, the DV decreases, therefore this graph has a negative correlation. It has a strong strength and is not linear because it is best modeled by a curve

b) Are there any outliers? Identify them by ordered pair.

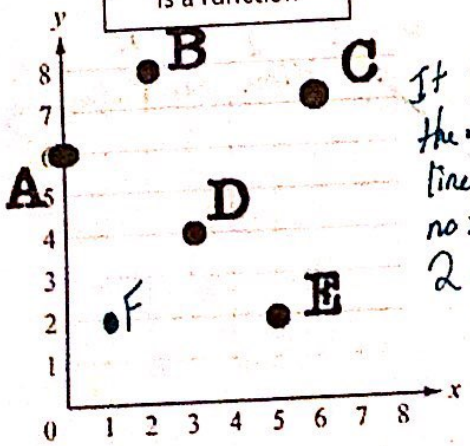
yes (4, 2)

c) Are there any gaps or clusters? Explain.

yes because there are a group of dots really close together between 10 and 20 on x-axis

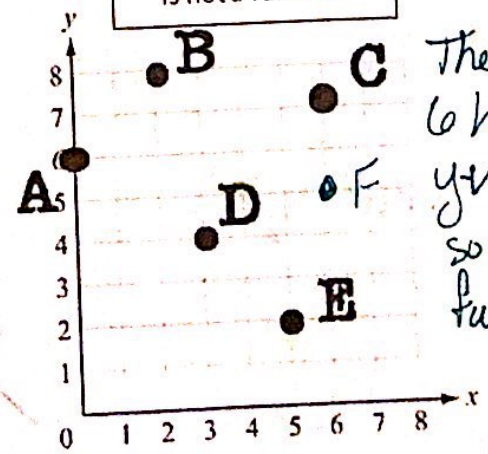
3. Add a point F to each graphed relation so that it meets the requirements in the box. Then explain how you know it meets the requirements

Graph A
Is a function



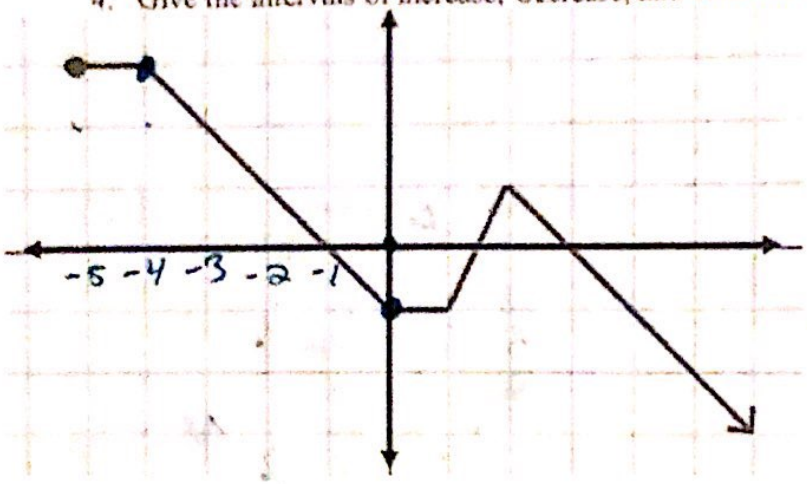
It passes the vertical line test and no x-values has 2 y-values

Graph B
Is not a function



The x-value of 6 has 2 y-values; C & F, so it is not a function

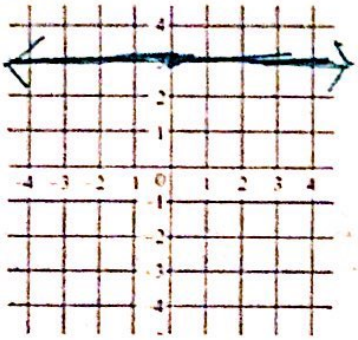
4. Give the intervals of increase, decrease, and constant for the function below.



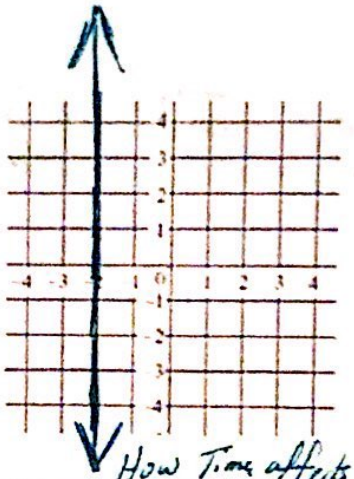
From -5 to -4, it is constant
From -4 to 0 it is decreasing
From 0 to 1 it is constant
From 2 to 2 it is increasing
From 2 to ∞ it is decreasing

5. Graph each line.

a. $y = 3$

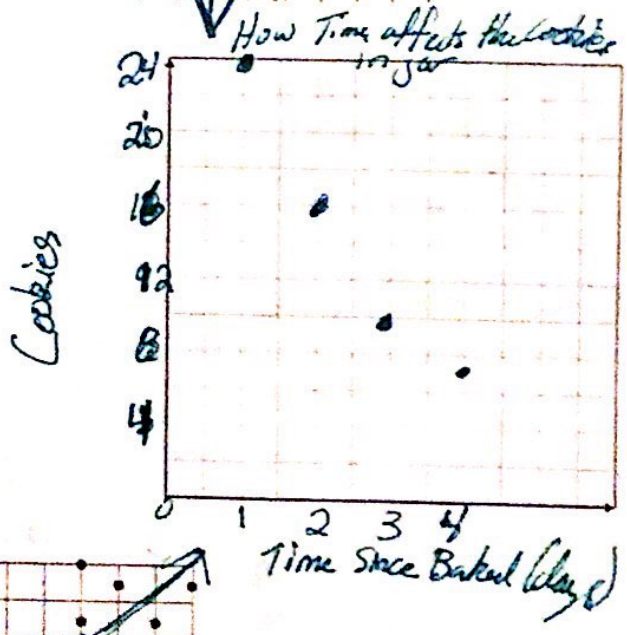


b. $x = -2$



6. Make a GREAT scatter plot of the data below. Be sure to identify the independent and dependent variables.

Cookies in the Jar				
Time Since Baked (d)	1	2	3	4
Cookies	24	16	10	7



7. For the scatterplot below, draw a line of best fit. Then use your line to estimate the score for a person who slept 7 hours.

about 87%.