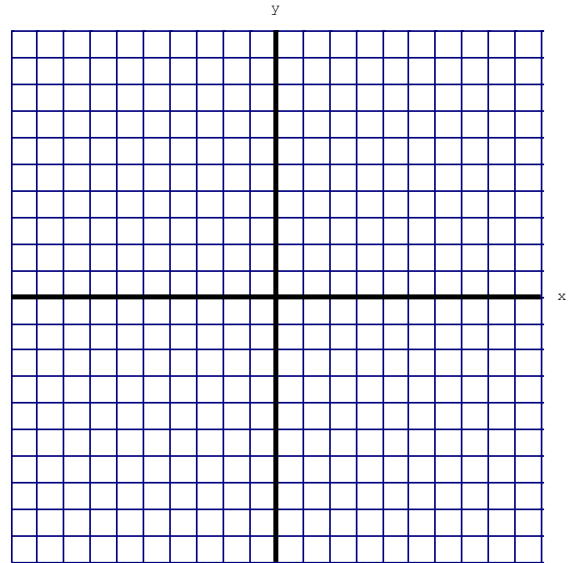


1. Solve the system by graphing. Use the boxes to help you.

$$y = 3x^2 - 12x + 8$$

$$y = 3x - 4$$

$y = 3x - 4$
Graph this first.



$y = 3x^2 - 12x + 8$
Find vertex:

X	Y

Answer(s):

For #2 and 3,

a. Circle if each sequence is arithmetic, geometric, quadratic, or none of these.

b. Write a formula for the sequence **if it is arithmetic or geometric**.

c. Find the next three terms in each sequence.

2. 10, 14, 22, 34 ...

Circle One: A G Q None

Formula (if A or G):

Next 3 terms: _____, _____, _____

3. 32, 16, 8, 4 ...

Circle One: A G Q None

Formula (if A or G):

Next 3 terms: _____, _____, _____

4. Mrs. Pitcher LOVES a good taco. She and Mr. Sacco decide to go to a new restaurant that supposedly serves the best tacos in the area. She orders 5 tacos and 2 churros. Mr. Sacco, who has a sweet tooth, decides he will order only 2 tacos, but wants 7 churros! If Mrs. Pitcher's bill is \$12.80 (before tax and tip) and Mr. Sacco's is \$12.25, determine the following:

a. What equations would represent the situation?

b. What is the cost of a taco?

c. What is the cost of a churro?

5. Find the x-intercepts by Factoring $y = x^2 - 12x + 27$

6. Check your answer to #5 using Complete the Square $y = x^2 - 12x + 27$