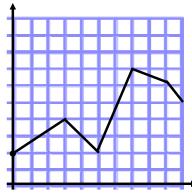
# Warm-Up 8/30

#### Use the following situation and graph to answer the questions.

1. The graph represents the profits of Mark's company over 10 months (x). The profits are based off of 10,000 dollar increments (y).



A. What is the maximum and what does it represent?

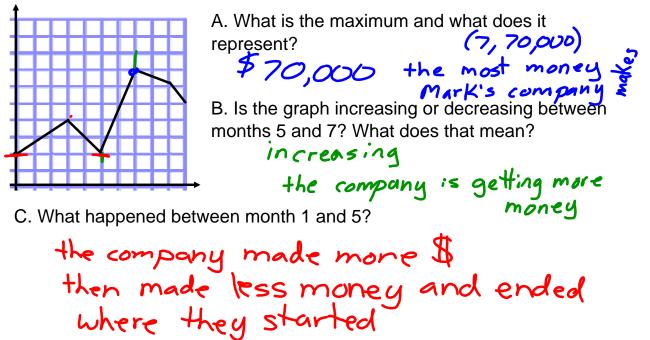
B. Is the graph increasing or decreasing between months 5 and 7? What does that mean?

C. What happened between month 1 and 5?

# Warm-Up 8/30

#### Use the following situation and graph to answer the questions.

1. The graph represents the profits of Mark's company over 10 months (x). The profits are based off of 10,000 dollar increments (y).

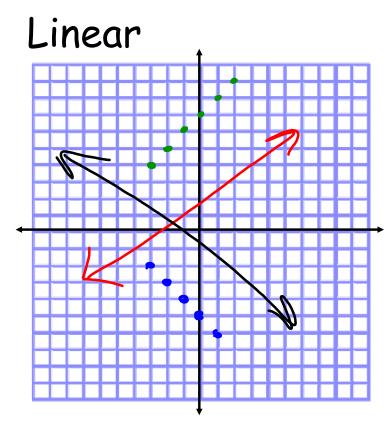


# Quiz

# **Today's Goal**

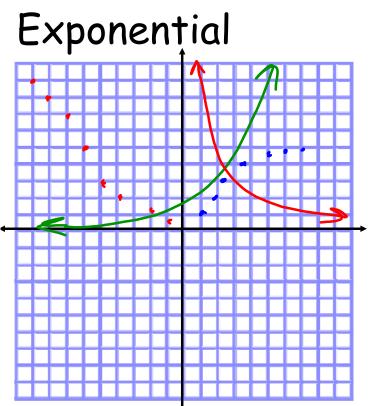
# I can...

 match real world situations to their corresponding graphs and equations



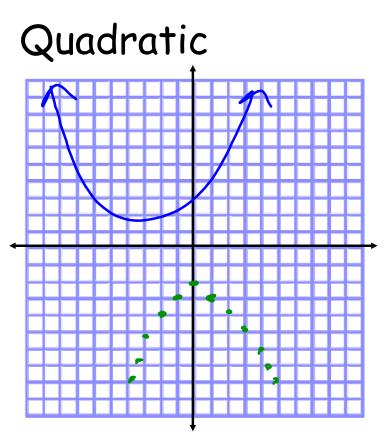
- can be increasing or decreasing
- constant change
- equation (no exponents and x in the numerator)

• graph is a line

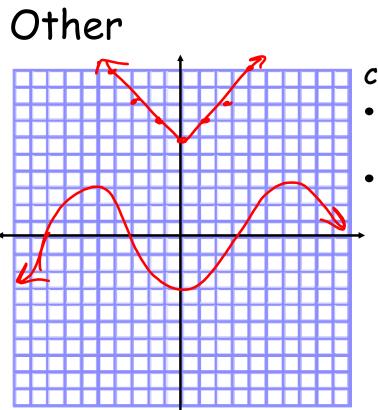


- can be increasing or decreasing
- fast then slow or slow then fast change.
- equation (x in the exponent or in the denominator)

 graph is an exponential function



- can be increasing and/or decreasing (depending on the domain)
- fast changes
- equation (exponent is 2)
  y = -x<sup>2</sup>; y = x<sup>2</sup> + 3
- graph is a parabola



- all other types of functions
- will not be linear, exponential, or quadratic

# Group matching real-world activity.