## 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).

A. What is the maximum and what does it represent?
( $7,70,000$ )
$\$ 70,000$ the most money
Mark's company
B. Is the graph increasing or decreasing between months 5 and 7 ? What does that mean?

> increasing
the company is getting more money
C. What happened between month 1 and 5 ?
the company made more $\$$ then made less money and ended where they started

Quiz

# Today's Goal 

I can...

- match real world situations to their corresponding graphs and equations




## Characteristics

- can be increasing or decreasing
- fast then slow or slow
then fast change.
- equation ( $x$ in the exponent or in the denominator)
> $y=3^{x} ; y=x / 10$
- graph is an exponential function


## Quadratic



## Characteristics

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

Other


## Characteristics

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


## Group matching real-world activity.

