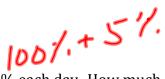
Algebra 8-4: Exponential Decay

Warm-Up



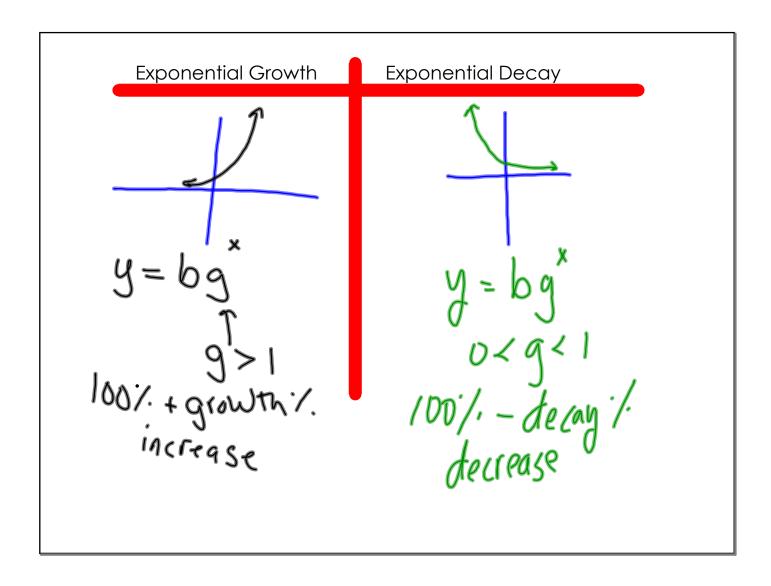
1. Suzie is saving money. She started with \$50 and is saving 5% each day. How much money will she have after 90 days?

1. Suzie is saving money. She started with \$50 and is saving 5% each day. How much money will she have after 90 days?

1. Suzie is saving money. She started with \$50 and is saving 5% each day. How much money will she have after 90 days?

2. Suzie is spending money. She started with \$50 and is spending 5% each day. How much will she have after 90 days?

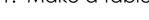
$$y = bg^{x}$$
 $y = 50(.95)$
 $y = 4.49$

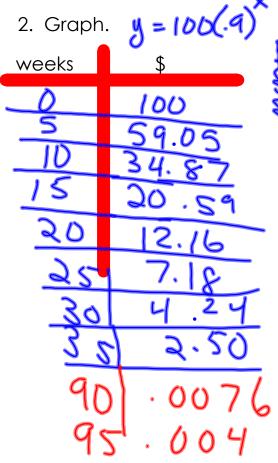


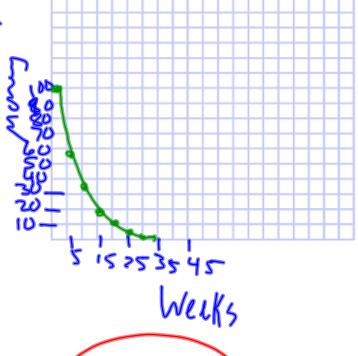
Example

1. Becca starts with \$100 each week. She pays her teacher 10% each week for helping her. How many weeks go by before she runs out?

1. Make a table.







95 week

2. For a certain type of calculator that cost \$350 in 1973, the price dropped about 19% each year.

What was the price 15 years later?

$$y = bg^{x}$$

$$= 350(.81)^{15}$$

$$= [4.84]$$

