Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Exponential Decay worksheet

Determine which of the following functions are exponential growth, exponential decay or neither.



Graph the following exponential functions

8.

9. A discount retailer advertises that items will be marked down at a rate of 10% per week until sold. The initial price of one item is $50.

Write an exponential decay function to model the price of the item x weeks after it is first put on the rack.

What will the price be after the item has been on display for 5 weeks?

After how many weeks will the item be half its original price?