

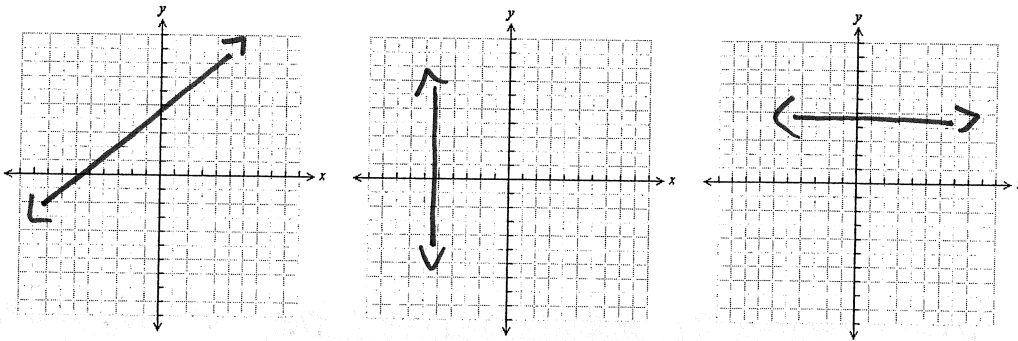
Different Types of Functions
Notes

Name: _____
Date: _____

Linear Functions:



- When graphed, linear functions look like straight lines.
- The rate of change is constant.
- What happens to y every time x increases by 1? y increases or decrease by the same amount

On the coordinate planes below, sketch three different linear functions:

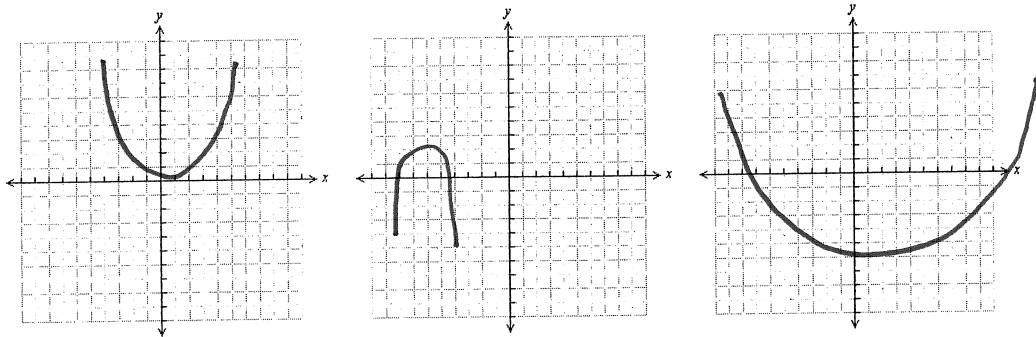


Quadratic Functions

look like: mountain, valley, "U" shaped

- When graphed, quadratic functions form a special curve called a parabola. These shapes are symmetric and can open up or down  
- Quadratic functions are different from linear functions in that they change directions.
- Every time x goes up by one, y is increased or decreased by a changing amount.

On the coordinate planes below, draw three different quadratic functions.



Exponential Functions

- Exponential functions are similar to quadratic functions in that they are curves, and not straight lines.
- Exponential functions are similar to linear functions in that they are always increasing or decreasing; they do NOT change direction.
- Every time x increases by 1, y is being multiplied or divided by a number.

On the coordinate planes below, draw three different exponential functions.

