## Bell Work

Without using a calculator, graph $f(x)=2 / 3 x+1$.

Classify each function as constant, linear, absolute value, quadratic, square root, or exponential. Justify your reasoning.

iii.

v.

ii.

iv.

vi.


Parent Functions
Family
Constant

Linear
$f(x)=x$


Absolute Value $f(x)=|x|$ $f(x)=x^{2}$
$f(x)=1$



Domain All real numbers
Range

$$
y=1
$$

$$
y \geq 0
$$

$$
y \geq 0
$$

Identify the function family to which $f$ belongs. Compare the graph of $f$ to the graph of its parent function.


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2.


## Describing Transformations

Graph $g(x)=x-4$ and its parent function. Then describe the transformation.

## Graph $p(x)=-x^{\wedge} 2$ and its parent function. Then describe the transformation.

## Graph and describe the transformation.

## Combinations of Transformations

