2-2 Transformations

Objectives:

2-2a: I can identify transformations from an equation and from a graph.

2-2b: I can identify attributes of transformed functions.

$$y = a(x-h)+k$$

Information to remember about transformations....

x's lie

any change to the domain (x's) is opposite of what appears in the equation

State the parent function and the transformations.

$$f(x) = \sqrt{x} - 2$$

W

Slide drun 2

$$f(x) = (x+3)^3$$

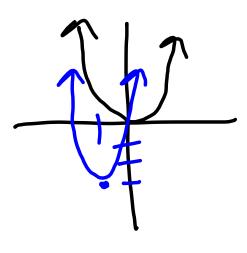
stide 1est 3 State the parent function and the transformations.

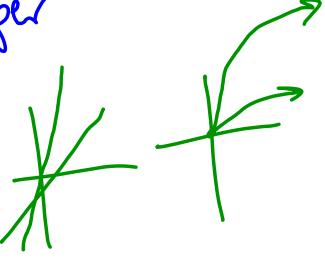
$$f(x) = 2|x|$$

$$f(x) = -2^x + 5$$

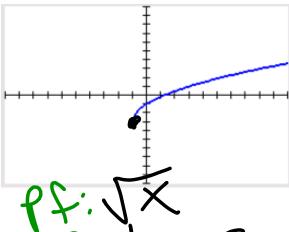
$$f(x) = 2(x+1)^2 - 3$$

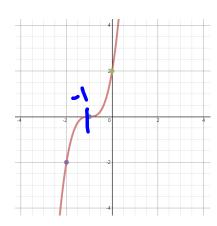
 $f(x) = 2(x+1)^2 - 3$ PX : x $f(x) = 2(x+1)^2 - 3$ PX : x $f(x) = 2(x+1)^2 - 3$ PX : x $f(x) = 2(x+1)^2 - 3$ $F(x) = 2(x+1)^2$





State the parent function and the transformations.





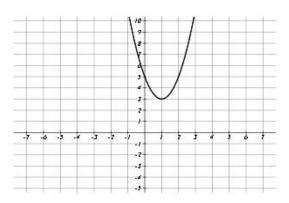
Tidown 3

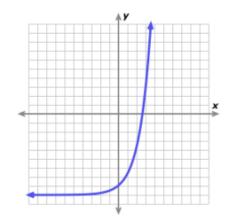
[e]+

F(x)=

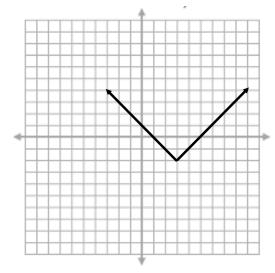
(x+1)-3

State the parent function and identify the transformations and graph





State the parent function, transformations, and attributes of the graph.



Parent Function:

Transformations:

Domain:

Range:

Increasing:

Decreasing:

Left End Behavior:

Right End Behavior:

x-intercepts:

y-intercepts: