H Math 2 Name_____

Unit 6: More Graphing

Graph each function. Be sure to show all critical points and any asymptotes.

1) $y = \sqrt{x+5}$

Transformation(s): _____

Domain: _____

Range: _____

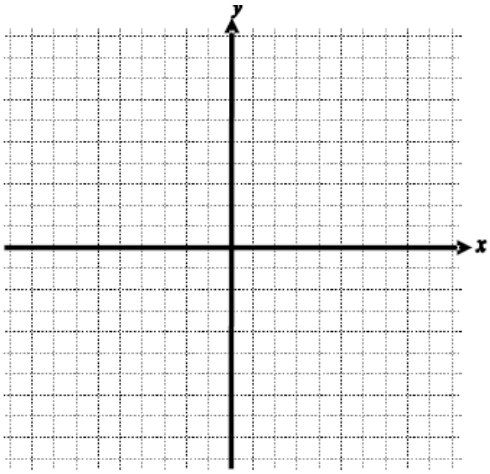
Interval of increasing: _____

Interval of decreasing: _____

x-intercept(s): _____

y-intercept(s): _____

End Behavior:



2) $y = -\sqrt{x-1}+4$

Transformation(s): _____

Domain: _____

Range: _____

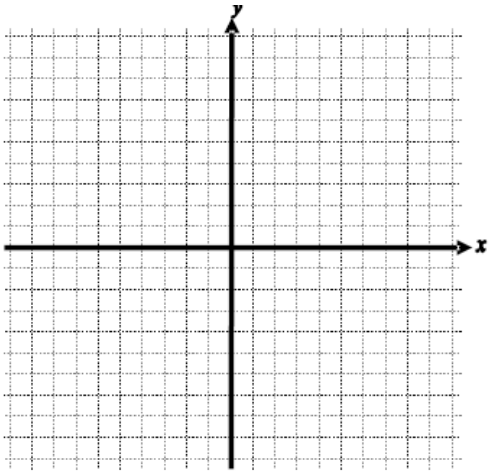
Interval of increasing: _____

Interval of decreasing: _____

x-intercept(s): _____

y-intercept(s): _____

End Behavior:



3) $f(x) = \frac{1}{x+3} - 2$

Transformation(s): _____

Domain: _____

Range: _____

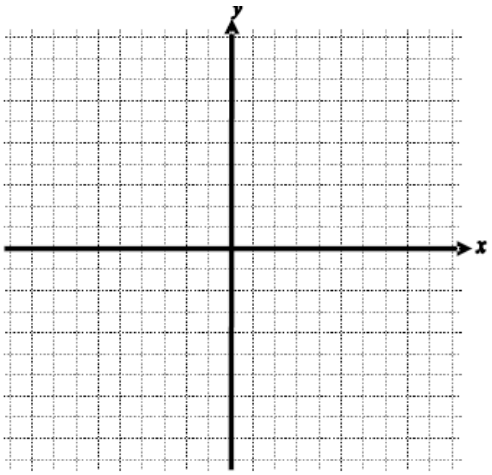
Interval of increasing: _____

Interval of decreasing: _____

x-intercept(s): _____

y-intercept(s): _____

End Behavior:



4) $f(x) = \frac{4}{x-2} + 3$

Transformation(s): _____

Domain: _____

Range: _____

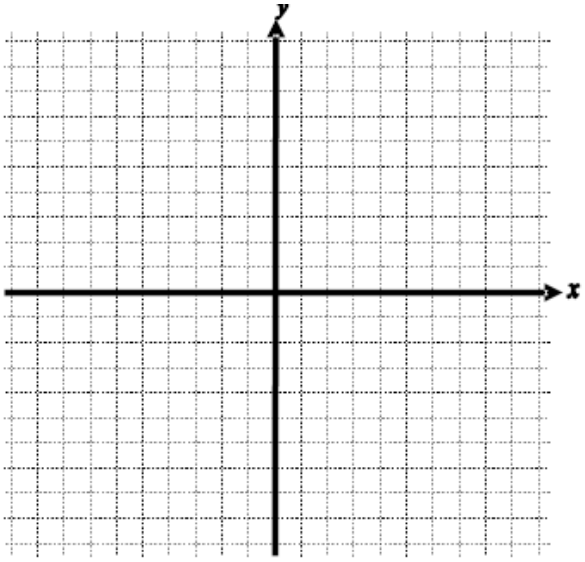
Interval of increasing: _____

Interval of decreasing: _____

x-intercept(s): _____

y-intercept(s): _____

End Behavior:



5) $f(x) = \frac{2}{x-4} - 3$

Transformation(s): _____

Domain: _____

Range: _____

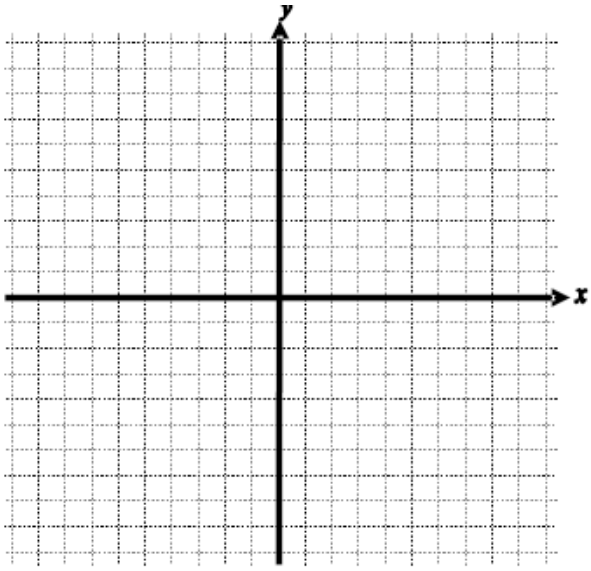
Interval of increasing: _____

Interval of decreasing: _____

x-intercept(s): _____

y-intercept(s): _____

End Behavior:



6) $f(x) = -\frac{1}{2x}$

Transformation(s): _____

Domain: _____

Range: _____

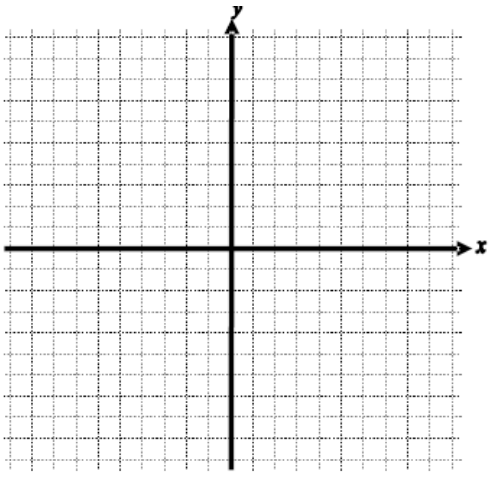
Interval of increasing: _____

Interval of decreasing: _____

x-intercept(s): _____

y-intercept(s): _____

End Behavior:



7) $f(x) = \frac{1}{2}\sqrt{x+3} - 1$

Transformation(s): _____

Domain: _____

Range: _____

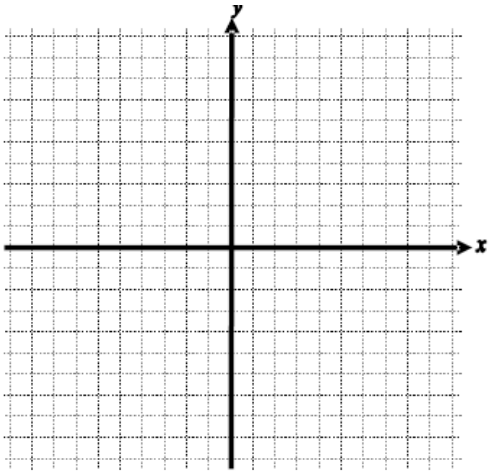
Interval of increasing: _____

Interval of decreasing: _____

x-intercept(s): _____

y-intercept(s): _____

End Behavior:



8) $f(x) = -2\sqrt{x} - 5$

Transformation(s): _____

Domain: _____

Range: _____

Interval of increasing: _____

Interval of decreasing: _____

x-intercept(s): _____

y-intercept(s): _____

End Behavior: