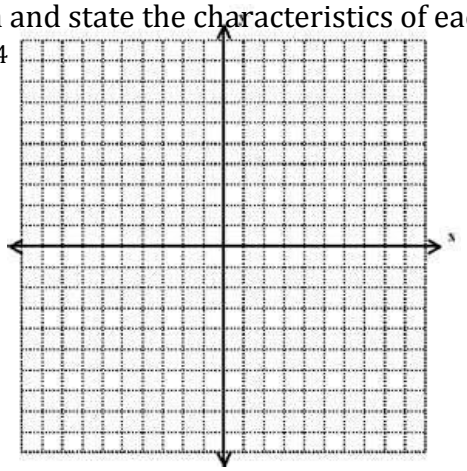
Algebra 2 Name:

Function Characteristics Review

Graph the function and state the characteristics of each graph:

1. $f(x) = (x+3)^2 - 4$



D: R:

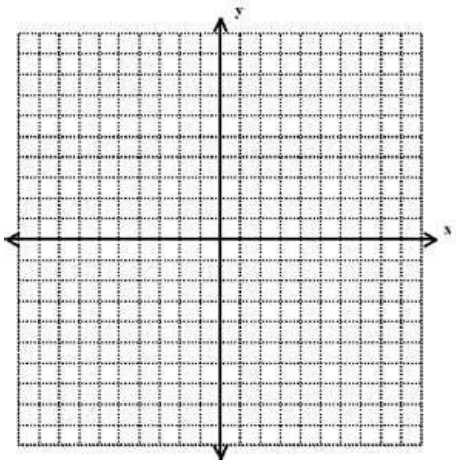
x-int: y-int:

end behavior:

increasing: decreasing:

max: min:

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



D: R:

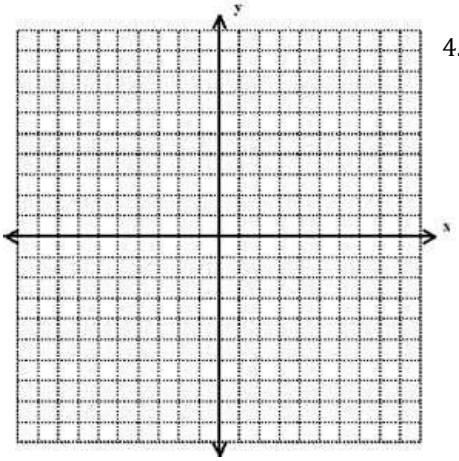
x-int: y-int:

end behavior:

increasing: decreasing:

max: min:

3. $f(x) = \frac{1}{2}|x| + 6$



D: R:

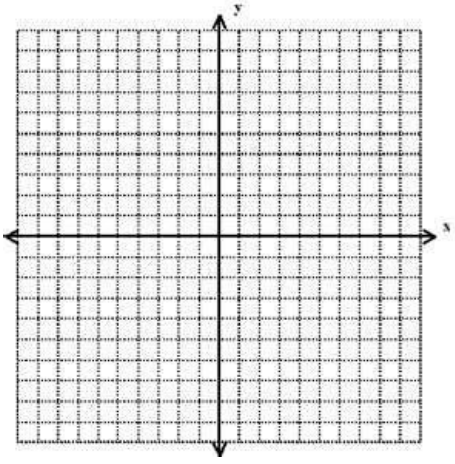
x-int: y-int:

end behavior:

increasing: decreasing:

max: min:

4. $f(x) = 2\sqrt[3]{x+1} + 2$



D: R:

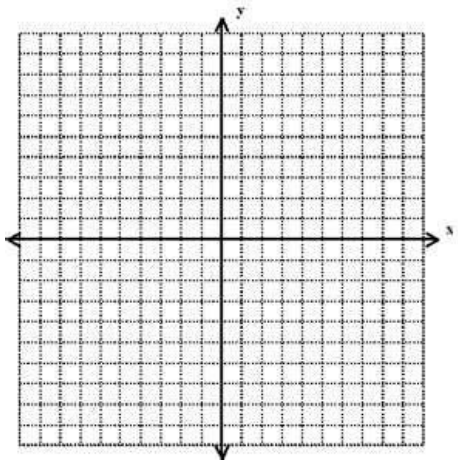
x-int: y-int:

end behavior:

increasing: decreasing:

max: min:

5. $f(x) = -x^3 - 3$



D: R:

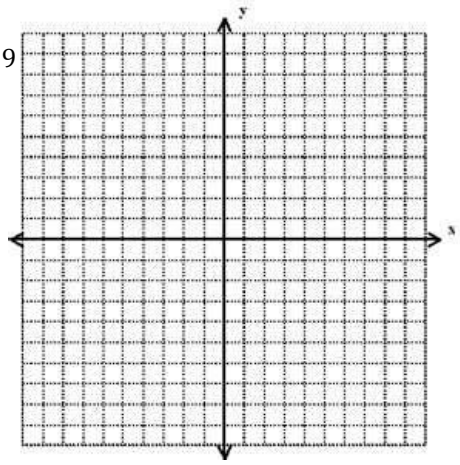
x-int: y-int:

end behavior:

increasing: decreasing:

max: min:

6. $f(x) = -3(x+5)^2 + 9$



D: R:

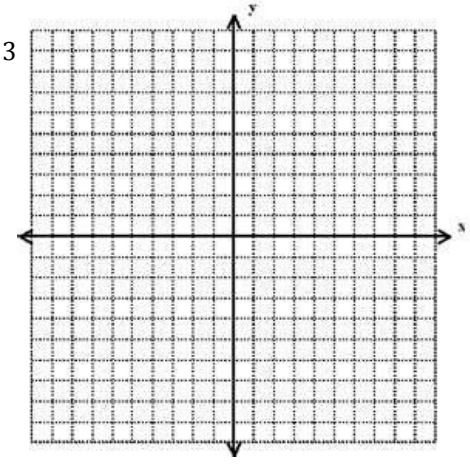
x-int: y-int:

end behavior:

increasing: decreasing:

max: min:

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



D: R:

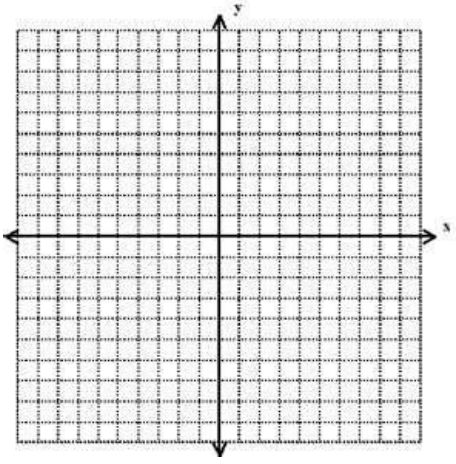
x-int: y-int:

end behavior:

increasing: decreasing:

max: min:

8. $y = -f(x-5) + 4$



D: R:

x-int: y-int:

end behavior:

increasing: decreasing:

max: min: