

Name _____

Date _____

Algebra 2/2GT

Homework – Interpreting Graphs

Use your graphing calculator, or another graphing utility, to graph each function. Then identify the following characteristics of each.

1. $f(x) = 3^x$

Function Type _____
Domain _____
Range _____
Minimum _____
Maximum _____
Increasing _____
Decreasing _____
Zeros _____
Continuity _____
End Behavior _____

2. $f(x) = \frac{4}{x^2}$

Function Type _____
Domain _____
Range _____
Minimum _____
Maximum _____
Increasing _____
Decreasing _____
Zeros _____
Continuity _____
End Behavior _____

3. $f(x) = (x - 1)^3$

Function Type _____
Domain _____
Range _____
Minimum _____
Maximum _____
Increasing _____
Decreasing _____
Zeros _____
Continuity _____
End Behavior _____

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

Function Type _____
Domain _____
Range _____
Minimum _____
Maximum _____
Increasing _____
Decreasing _____
Zeros _____
Continuity _____
End Behavior _____

5. $f(x) = 4x^2 - 4x$

Function Type _____
Domain _____
Range _____
Minimum _____
Maximum _____
Increasing _____
Decreasing _____
Zeros _____
Continuity _____
End Behavior _____

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

Function Type _____
Domain _____
Range _____
Minimum _____
Maximum _____
Increasing _____
Decreasing _____
Zeros _____
Continuity _____
End Behavior _____
