

I can analyze a function #2

Name _____

Date _____

Advanced Algebra

I can analyze a graph

Assignment #11

1) Graph $y = 2(x-3)^3 - 6$

a) State the y intercept _____

b) State the x intercept _____

c) Does this function have a maxima or minima? If so identify them

c) Using proper math terminology what is the domain?

d) Using Proper math terminology what is the range?

e) For what x values is $f(x)$ increasing?

g) For what x values is $f(x)$ decreasing?

2) Draw the graph $y = \sqrt[2]{(x - 3)} + 4$

a) State the y intercept _____

b) State the x intercept _____

c) Does this function have a maxima or minima? If so identify them

d) Using proper math terminology what is the domain?

e) Using Proper math terminology what is the range?

f) For what x values is $f(x)$ increasing?

g) For what x values is $f(x)$ decreasing?