Review graphing lines, quadratics, square roots, and absolute values.

Graphing Piecewise-Defined Functions

Sometimes a function is defined differently on different parts of its domain. When functions are defined by more than one equation, they are called *piecewise-defined functions*.

Examples: For the following functions:

a) Graph the function.

c) Locate any intercepts.

b) Find the domain and range of the function.

d) Find the requested function values





Find f(-2), f(0), and f(3)

Find f(-3) and f(2)







Find f(-4), f(2), and f(4)



Find f(0), f(2), and f(8)

Find the equation of the following graphs.



The graph of a piecewise function is given. Write a definition for each function.





b.



c.

Talk about continuous functions.

Do problem #13 on homework