Name:_____Class:_____Date:_____

PreAP Algebra 2 T3 Review: discrete/continuous functions, domain/range, transformations

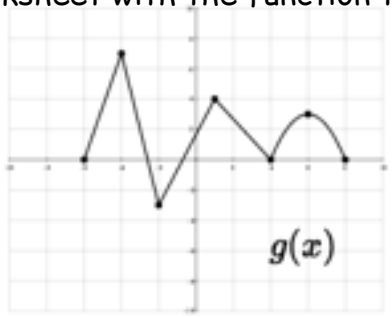
STUDY the discrete/continuous notes that I gave you. Rewrite them if you need to.

Look at the quiz you took on discrete/continuous.

Rework the problems on the discrete continuous worksheet that we did. Pay attention to domain and range.

Domain/Range: know the three different ways it can be written (set notation, interval notation, inequalities). Given a specific domain and range, be able to produce a graph with in that domain and range that would be a function.

Transformations: Know how to apply a transformation rule to a function like we did with the worksheet with the function that looked like this:



I will give you the rules like g(x + 4) and you will transform the graph like we did on the worksheet.

Know how to transform any of the four algebraic functions given a combination of transformation rules. Study the "24" problems that you did with the four types of functions. Rework them!!!!!

Be able to identify the domain and range of any type of function given.

Know your parent functions!!!! for linear, absolute value, quadratic, and square root.

Your test will be made up of all of these topics listed above.

Here are some random transformation rules to apply to <u>any or all of the four functions (linear, quadratic, absolute value, square root</u>. Be able to describe the rule, graph the function, identify the domain and range. Do as many as you think you need to do.

h(x) = -1/2f(x - 3) + 2

j(x) = f(-2x + 1) - 3

q(x) = 3f(x) - 1

m(x) = f(1/2x) + 4

Give me a <u>transformation rule</u> that would do the following: vertical stretch of 6, move left 3, right 4, and reflect over the y-axis. Your answer will be in the form of the problems directly above.