

Matching Graphs

Open First Class, in the Upper Learning Public area go to math. In the precalculus area, double click on the matching graphs document. Your job is to find the equations of the functions plotted as a series of points. Use the variables a, b, c, and d to make the equation (given at the bottom of each graph and plotted as the red line) match the points.

For equation number 1, $y = a\sqrt{bx - c} + d$, write your first guess for the values a, b, c, and d to match the points here.

1)

By highlighting each numerical value for a, b, c, and d you can type in the values you guessed and the red curve will update. Please be aware that because of the way I made the document all four red lines will update, but work on finding the values one graph at a time. If your guess did not match, think about what changes you would like to make and write down a new guess. Keep guessing until the red curve matches the points, when it does write down your final answer.

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For equation number 2, $y = a(bx - c)^2 + d$, write your first guess for the values a, b, c, and d to match the points here. Write down all of your guesses and your final answer.

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For equation number 3, $y = a(bx - c)^3 + d$, write your first guess for the values a, b, c, and d to match the points here. Write down all of your guesses and your final answer

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For equation number 4, $y = a(bx - c)^2 + d$, write your first guess for the values a, b, c, and d to match the points here. Write down all of your guesses and your final answer

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