

# Worksheet #2 - Graphing with the Calculator

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You will be using your calculator throughout the semester to solve problems. You need to learn how to use it efficiently and know the different features of your calculator. Don't wait to learn how to use your calculator.

You will also be expected to answer questions in this course with complete sentences. Answers need not be a novel, but a good complete sentence or two that answers the question.

- Graph the following equation

$$y = f(x) = x^3 - 12x + 10$$

- Important points to find on any graph will be roots, intercepts and places where the direction of the graphing is changing. What are your values of  $Xmin$ ,  $Xmax$ ,  $Ymin$  and  $Ymax$  that allow you to display the important features of this graph?

- What is  $f(2.4)$ ? On the graph, what does this value represent?

- How many roots does this function have? What are their values? Did you write down the exact values or approximations?

- Where is the function changing direction (ie, changing from increasing to decreasing or visa versa)? Did you write down exact values or approximations?

- Build the following table using the "Table" feature of your calculator.

x	f(x)
-4	
-2	
0	
2	
4	