Creating Vectors

Created by MathWorks for Structural Dynamics

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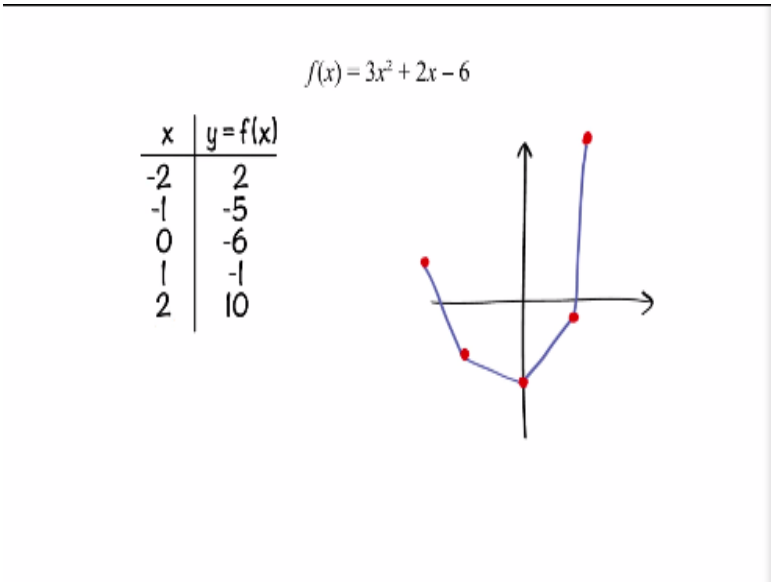

Many commands in MATLAB allow the use of lists of numbers known as vectors. For example, we could plot each of these points individually then connect the dots, but by using vectors we can do it all at once.

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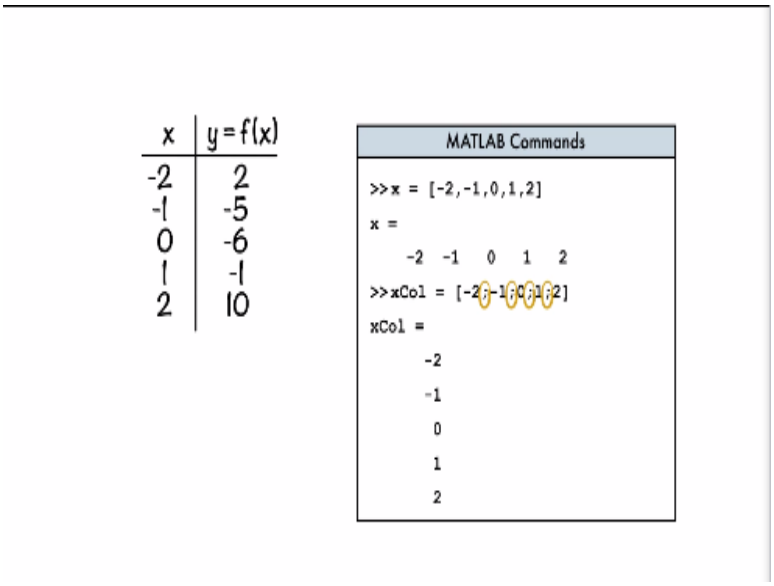

Let us try making a vector to store our x-values we create a MATLAB vector by entering our sequence of values placed within square brackets and separating the values with commas. Notice that this creates a row vector, but what if an application calls for a column vector instead no problem we use semicolons in place of the commas.

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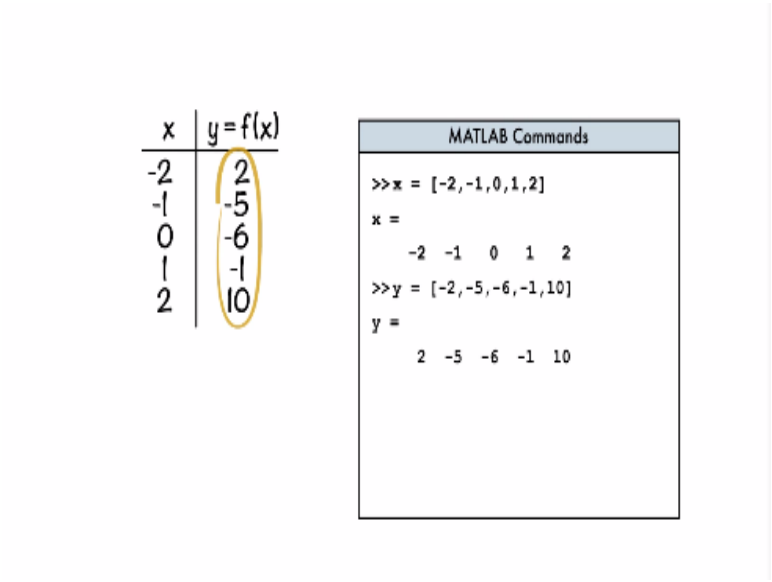

Now back to that plot let us go ahead and create why as a row vector to.

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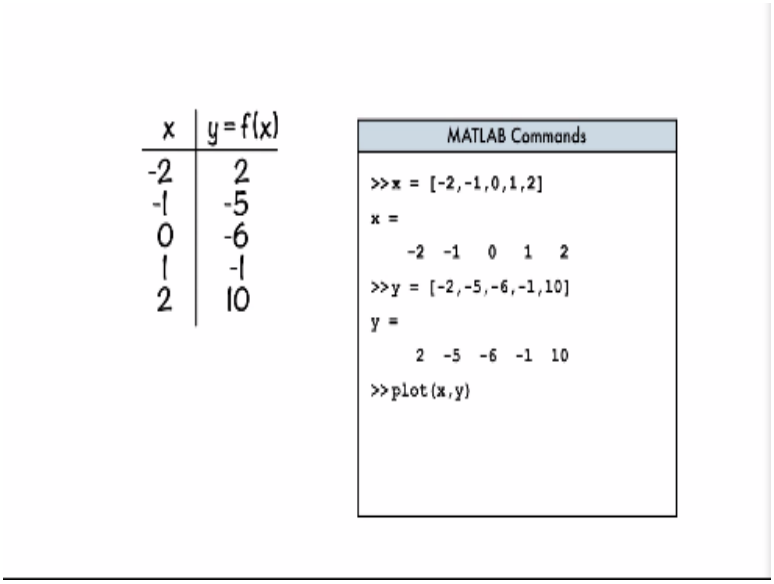

Then we call the plot function using our x and y vectors as inputs.

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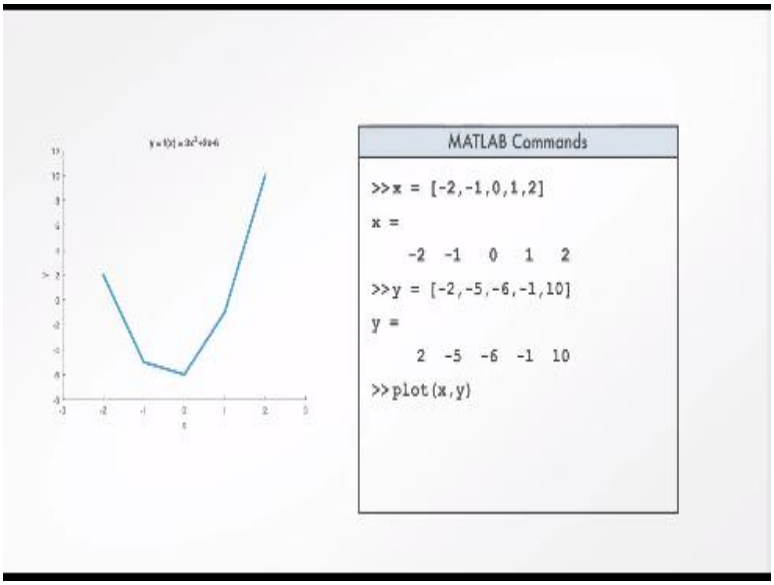

And there you go we have a plot of our points.

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