Graphing

Create these graphs in two programs. I recommend Winplot and Geogebra. Copy the graphs into Word. Label the graphs—you can either use labeling tools within the graphing program, or you can use textboxes in Word to get the labels.

(10) 1. Graph  on a graph where the x-axis has tick marks increments of π.

(12) 2. Show the region bounded by  and  (the region should be shaded). Make the two functions different colors, and label each graph with its function.

(18) 3. Show a single, piecewise defined function that has:

* a missing point (removable discontinuity)
* a jump discontinuity where the function is continuous from the right
* a vertical asymptote (show the vertical asymptote with a dashed line)