To do these exercises you may need to “look things up”. Remember that google is your best friend.

Exercise 1
Plot the function $f(x) = x \cos \sqrt{x} / \log(2.5 + x)$ between $x = 0$ and $x = \pi/2$. (This is the same function of Homework 3, Problem 2).

Exercise 2
Pick 1,000,000 random numbers from a Gaussian of mean 10 and standard deviation 2. Put these numbers into a histogram with “reasonable” binsize and limits, and plot it. Then superimpose an appropriate Gaussian curve to show that indeed the the 1,000,000 random numbers were picked “correctly”.

Exercise 3
Draw a circle, and fill it with some color. Make sure that it is a circle, not an oval. Figure out how to not show the x- and y-axes in your figure.