Assignment Matlab Lab 1

1. Create Matlab code to perform the following calculations:

$$3 * \frac{4+5}{6} + 9$$

$$(5+2)^2 + 8^2 - 3/5$$

$$6\frac{4}{5} + 8 - 3*2^2$$

$$1 + 5 * \frac{3}{6^2} + 2^{2-4} * \frac{1}{5.5}$$

2. (a) The volume of a cylinder is $\pi r^2 h$. Define r = 3 and h = [1, 5, 12]. Find the volume of the cylinders.

(b) The area of a triangle is 1/2*base*height. Define the base = [2, 4, 6] and the height = 12, find the area of the triangles.

3. Generate a table of conversions from degrees to radians. The first line should contain the values for 0°, the second line should contain the value of 10°, and so on. The last line should contain the values for 360°.

4. Generate a table of conversions from centimeters to inches. Start the centimeter column at 0 and increment by 2 centimeters. The last line should contain the value 30cm.