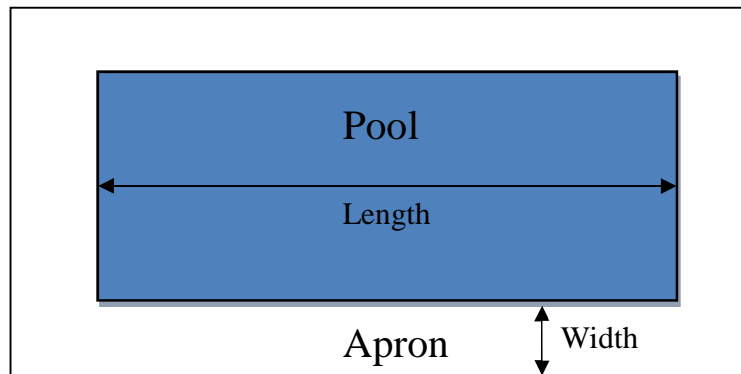


ECOR 2606 Assignment 1

Question 1: A rectangular swimming pool is surrounded by an apron (see diagram below). The concrete in the apron is 20 cm thick. The width of the apron is 15% of the length of the pool and the pool's width is 8m less than its length. If the walkway contains 20 m^3 of concrete how long is a pool?



Produce a script file (to be called pool.m) that

- 1/. Creates a graph (figure 1) showing the amount of concrete required for pool lengths from 8 to 20 metres. The axes of the graph should be appropriately labelled (be sure to include units!) and a grid should be used. Use function *fplot* (**NOT** *plot*).
- 2/. Uses *fzero* to determine the precise length of the pool.
- 3/. Outputs a nicely formatted message (use *fprintf*) giving the length of the pool.