2. a)
$$\cos(12\pi) = \cos(2\pi) = 1$$
.

a) calculate sin (0) and cos(0)

$$sin(0) = \frac{3}{5}$$

b) calculate sin2(0) + cos2(0)

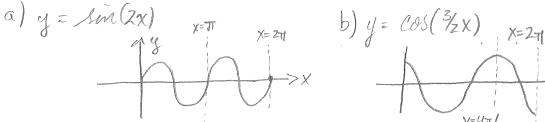
$$\left(\frac{3}{5}\right)^2 + \left(\frac{4}{5}\right)^2 = \frac{9}{35} + \frac{16}{35} = \frac{25}{35} = 1.$$

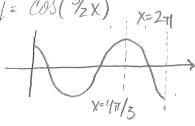
5.3

2. Sin (71/4) = Sin (71/4 - 811) = sin (-1/4) = -sin (1/4) = -52

8. cos(137) = cos(137 + 1/6) = cos(1/6+271) = cos(1/6)===

5.4 4. Leagh the following functions over the interval (0,271)





4. What is COS(0+11) in

terms of cos(0)?

COS(0+TT)=-COS(0)

