$$5.2:$$
2. a)  $cos(12\pi) = cos(2\pi) = 1.$ 

b) Sin (57) = Sin (7+47)

= Sin (5+211)

= Sin (11/2)

C) Sin (-21) = Sin (-917 + 1271)

= sin (翌)

d) cos(10171) = cos(TI +100TI) = COS(m)

a) calculate sin (0) and cos(0) sin(0) = 3/5

COS(0) = 4/5.

6) calculate sin2(0) + cos2(0)

5.3

2. Sin (71/4) = Sin (71/4 - 811) = Sin (-1/4) = - Lin (1/4) = - 5

4. cos(-31/4) = cos(31/4) = -5

8. cos(137) = cos(137 + T/6) = cos(1/6+271) = cos(1/6) = = 12. Sin (297) = Sin (247 + 57) = Sin (417 + 57) = Sin (576) = 12

4. What is COS(0+11) in terms of cos(0)?

COS(O+TT)=-COS(O)

 $\left(\frac{3}{5}\right)^2 + \left(\frac{4}{5}\right)^2 = \frac{9}{75} + \frac{16}{75} = \frac{25}{75} = 1$