**6.2 Trigonometric Ratios of Any Angle**

***Reference Angle*** is the acute angle formed by the terminal arm and the x axis.

ex.1. Determine the reference angle for: a) 130 b) 240

ex.2. Point (-2, -4) is on the terminal arm of an angle in standard position.

a) Find r

b)

c) Find the angle to the nearest degree.

**Special Right Triangles**

For angles of 30, 45, 60, you can find exact values of trig ratios. Exact values are fractions or radicals ( )

Sin 45

Cos 45

Tan 45

Sin 30 sin 60

Cos 30 cos 60

Tan 30 tan 60

ex.3. a) Given cos , determine the other trig ratios

b) Determine the possible values of when 0 < < 360

**Homework p 449 #4-7, 10, 14**