Name_____

Date_____

Advanced Algebra Unit 10 Advanced Trig

Solving Trig Equations- Assignment #11

(No manipulation) Just using the Unit Circle to find your answer.

1) Sin Θ= $\frac{\sqrt{2}}{2}$ domain 90 < Θ<180

2) cos Θ= -1 domain 90 < Θ< 180

3) cos Θ= -.5 domain 90<Θ< 180

4) sinΘ= -.5 domain 180 <Θ< 360

5) cos Θ= $\frac{\sqrt{2}}{2}$ domain 180 <Θ<360

6) sinΘ= $\frac{\sqrt{3}}{2}$ domain 0 < Θ<180

7) tan Θ= $\frac{\sqrt{3}}{1}$ domain 180 <Θ< 360

8) tanΘ= -1 domain 180 <Θ< 360

Review:

Draw an angle that terminates at the given point. Then list the sin, cos, and tangent. Finally state both the reference angle and the obtuse angle. Remember, you draw an angle from the positive x axis and it goes counterclockwise. There is only 1 correct answer for the reference and the obtuse angle.

1) (5,-2)

2) (-7,-4)

Co-terminal

Use the idea of co-terminal and your picture to determine if the following are equal.

1) Sin30 and the sin 390

2) tan 210 and tan 390

3) Cos 40 and the cos 760

4) tan 315 and tan -45

I know Exact values

Sin 30=_____ Cos 210=_____ tan45=_____

Sin 210=_____ cos 240=_____ tan (-135)