**Section 7.3 Sum and Difference Identities**

**Cosine Sum and Difference Angles**

cos (α + β) =

cos (α – β)=

**Sine Sum and Difference Angles**

sin (α + β) =

sin (α – β) =

 **Tangent Sum and Difference Angles** (This pair of identities will be given on 10/31, Friday’s Quiz)

tan(α + β) =  tan(α – β) = 

**Cofunction Identities**

cos ( 90o – θ ) = cot ( 90o – θ ) =

sin ( 90o – θ ) = sec ( 90o – θ ) =

tan ( 90o – θ ) = csc ( 90o – θ ) =

**Pythagorean Identities**

sin2 *x* + cos2 *x* =

tan2 *x* + 1=

1 + cot2 *x* =