TIPS FOR SIN AND COS

1.

If n = odd and m = even,

We can say that n = 2k+1

From this point on, we can then decide to do the u-substitution with

u = sin x

2. A similar method can be applied if m is odd and n is even

For that, we are going to end up with something like:

3. When m and n are even (m=n=even)

We will use the half-angle formula

4. If both are odd

TIPS FOR SEC AND TAN

If both are even u=tanx and bring out sec^2x

If both are odd u=secx and bring out sectan x

TRIG SUB

Recall SOH CAH TOA

sin = Opp / Hyp

if z = a sin %theta

%theta = z/a

Hyp = a

Opp = z

Adj = sqrt {{a rsup 2} – {z rsup 2}}

1. When you have a question containing , z =

2. When you have a question containing root ,

3. When you have a question containing root ,

4. When you have a question containing 1 over ,

REDUCTION FORMULAE

Note the recursion formulae of the following

The recursion formula for sine

The recursion formula for cosine

The reduction formula for secant

It should be noted that the reduction formula for secant doesn’t work if n=1

The reduction formula for tangent