Sin(α-β)=Sin α . Cos β - Cos α . Sin β

WE HAVE,

Sin(90 – Ø) = Sin 90 . Cos Ø – Cos90 . Sin Ø

{  
 sin 90 =1 and cos 90= 0   
}

So;

Sin(90 – Ø) = Cos Ø

If;

We had Sin Ø =

i.e Ø=45

so , Cos 45 =