Section 28.8: Integration by Trig Substitution

Thursday, February 14, 2013 11:13 AM

review (from precalallus)

if x = 5 sin O, find tan G and sec G in terms of x

had to Start? draw a trigngle:

if
$$x = 5 \sin 6$$

 $\sin 6 = x$
had to calculate?

lythagars =
$$\sqrt{25-x^2}$$

So, what's
$$kn6$$
? $kn6 = \frac{x}{adj} = \frac{x}{\sqrt{as-x^2}}$

sect?
$$\sec \theta = 1$$
 $\frac{5}{\cos \theta}$ $\sqrt{\frac{5}{35-x^2}}$