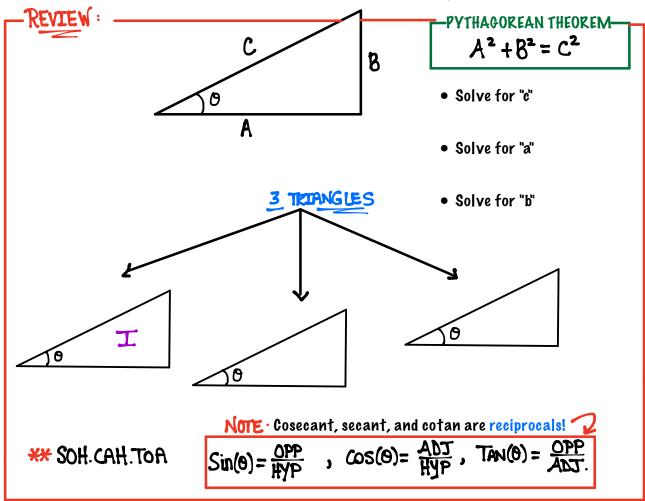
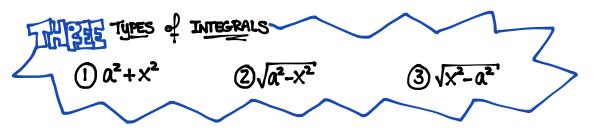
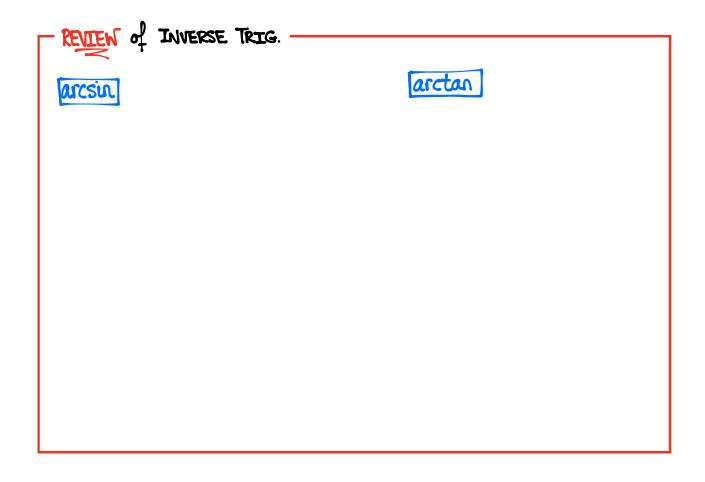
CH7.3 TIZEG SUBSTREENVIREDN

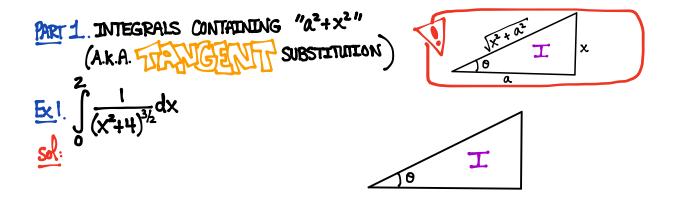
We will now learn a method to treat more complicated integrals for which normal substitution will not work immediately (always check!). This method involves using **TRIGONOMETRY** to make a creative substitution within an integral.

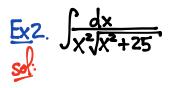


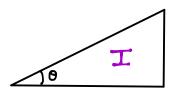
Given an integral of a particular form, we will use one of the TRIANGLES
(I, II, III) along with SOHCAHTOA to CONVERT everything in the integral from "x" to "O". One we do this, the integral will be computable. We then go back to "x" at the end! The is called the METHOD OF TRIGONOMETRIC SUBSTITUTION.



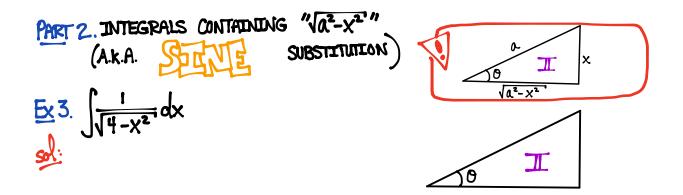


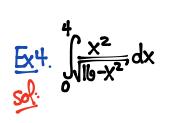


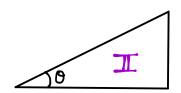




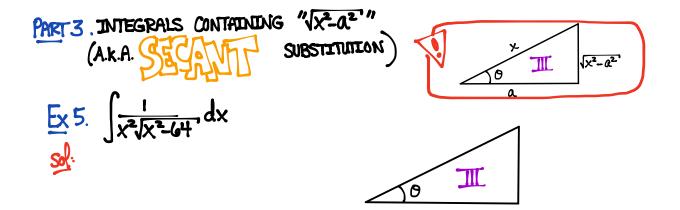












PART 4: SWARTER NOT WARDER Ex 6. $\int \frac{x}{\sqrt{9-x^2}} dx$

Try **SIMPLE** integration techniques **FIRST**!