**Section 7.1 – Equivalent Trigonometric Expressions**

* 3.1 recognize equivalent trigonometric expressions [e.g., by using the angles in a right triangle to recognize that sin x and cos ([pi]/2 – x) are equivalent; by using transformations to recognize that cos (x + [pi]/2 ) and –sin x are equivalent], and verify equivalence using graphing technology

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sin (x) = sin ( )

 = cos ( )

cos (x) = cos ( )

 = sin ( )

tan (x) = tan ( )

**Example 1:** State two trig ratios that are equivalent to each of the following.

a) Sin 3$π$/10 b) -cos 8$π$/7

You try:

a) -sin13$π$/7 b) cos6$π$/7

**Example 2:** Write an equation that is equivalent to y= - 5sin(x-$π$/2) – 8.

 **Homework: pg 392 - #5,7**