Math-3 Handout 6-3

<u>A typical co-terminal angle problem</u>: Find a <u>positive</u> and <u>negative</u> angle that is <u>co-terminal</u> with

 $m \angle \theta = 240$ $m \angle \theta = -100$

$$\tan \theta = \frac{1}{5} \qquad \theta = ?$$

Draw and label a right triangle:



Draw and label a right triangle:





$$\tan\theta = \frac{4}{9} \quad \cos\theta = ?$$

Draw and label a right triangle:

$$\sec\theta = \frac{4}{9}$$
 $\csc\theta = ?$

Draw and label a right triangle:





What is the sine ratio of a standard position angle whose terminal side passes through the point (2, 7)?



What is measure of the angle?

What is the cosine ratio of an angle whose terminal side passes through the point (-1, 3)?



What is the sine ratio of an angle whose terminal side passes through the point (4, -3)?

What is measure of the reference angle?

What is measure of the std. position angle?



Convert between radians and degrees using a "proportion".

angle _{degrees}	_ angle _{radians}
360	$=$ 2π

 $\frac{3}{8}\pi$



















