

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

DEPARTMENT OF MATHEMATICS AND STATISTICS

SECTIONS 3.2 & 3.3

Math 1090 Worksheet

FALL 2009

For practise only. Not to be submitted.

- Express $\frac{7\pi}{12}$ in degrees.
 - Express 225° in radians.
 - Express -40° in radians.
- Find the values of the six trigonometric functions for each of the following angles θ .
 - $\theta = \frac{17\pi}{6}$
 - $\theta = -\frac{3\pi}{4}$
 - $\theta = \frac{5\pi}{2}$
- If θ is an angle such that $\cos(\theta) > 0$ and $\csc(\theta) < 0$, in which quadrant does θ lie?
- If $\cos(\theta) = \frac{2}{5}$, find each of the following.
 - $\cos(\theta + \pi)$
 - $\cos(\theta + 2\pi)$
- For each value of θ , find the other five trigonometric ratios.
 - $\sin(\theta) = \frac{8}{17}$, where $\frac{\pi}{2} < \theta < \pi$
 - $\cos(\theta) = -\frac{1}{3}$, where $\pi < \theta < \frac{3\pi}{2}$
 - $\sec(\theta) = \frac{5}{3}$, where θ is in the fourth quadrant