

Math 2200

Worksheet Section 2.1-2.2

1. Sketch each angle in standard position and state the measure of its reference angle.

a) 240°

b) 335°

c) 163°

d) 50°

2. An angle in standard position has its terminal arm in quadrant III. If $\cos \theta = -\frac{5}{6}$, determine the exact values for the other two primary trigonometric ratios.

3. The terminal arm of an angle, passes through the point $P(-3,6)$. Determine the exact values of $\sin \theta$, $\cos \theta$, and $\tan \theta$.

4. Point $P(5,-12)$ is on the terminal arm of an angle, θ . Sketch the angle in standard position and use that to determine the measure of the angle, θ , to the nearest degree and the measure of its reference angle, to the nearest degree.