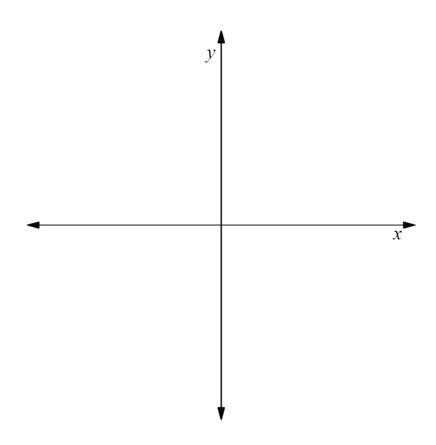Name: _____   Date: _____

Learning Goal 2.2	Using trigonometric ratios and solving simple trigonometric equations.

Example The point $P(-8, 15)$ lies on the terminal arm of an angle θ, in standard position. Determine the exact trigonometric ratios for $\sin \theta, \cos \theta$ and $\tan \theta$.

Example Suppose θ is an angle in standard position with terminal arm in quadrant III, and $\cos \theta = -\dfrac{3}{4}$. What are the exact values of $\sin \theta$ and $\tan \theta$?

Example Determine the values of $\sin \theta, \cos \theta$ and $\tan \theta$ when the terminal arm of quadrantal angle θ coincides with the positive $y - $ axis.

Example Given $\cos \theta = -0.6753$ where $0° \leq \theta < 360°$, determine the measure of θ to the nearest tenth of a degree.