Name: _____ Date: _____

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

1. The point $P(-5,-12)$ lies on the terminal arm of an angle θ, in standard position. Determine the exact trigonometric ratios for $\sin\theta$, $\cos\theta$ and $\tan\theta$.

2. Suppose θ is an angle in standard position with terminal arm in quadrant III, and $\tan\theta = {}^{1}/_{5}$. What are the exact values of $\sin\theta$ and $\cos\theta$?

3. Determine the values of $\sin\theta$, $\cos\theta$ and $\tan\theta$ when the terminal arm of quadrantal angle θ coincides with the negative $x-$ axis.

4. Given $\sin\theta = -0.8090$ where $0° \leq \theta < 360°$, determine the measure of θ to the nearest tenth of a degree.