

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Learning Goal 2.2**

Using trigonometric ratios and solving simple trigonometric equations.

1. Determine the exact value of  $\sin 240^\circ$ .
2. Solve  $\sin \theta = -\frac{1}{\sqrt{2}}$ ,  $0^\circ \leq \theta < 360^\circ$
3. Solve  $\tan \theta = -1$ ,  $-360^\circ \leq \theta < 360^\circ$
4. Determine the exact values of the sine, cosine and tangent ratios for  $210^\circ$