

Quiz**Name**

1. Draw a circle of radius 3. Put in a diameter AB and choose a point C on the circle such that the angle $\angle CAB$ is 30° . Determine the lengths of the segments AC and BC . Find then area of the triangle $\triangle ABC$.

2. Use the trigonometric identity $\sin(\alpha + \beta) = \sin \alpha \cos \beta + \cos \alpha \sin \beta$ as well as the values of the sine and cosine for angles computed in Section 1.6 to determine the exact value of $\sin \frac{5\pi}{12}$.