9b: Unit Circle Practice



1. Use the drawing above:
   1. Give the exact numerical value of g2 + h2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
   2. Give one equation with two variables whose solutions are all the points on the circle in the illustration above.
   3. By referring to the illustration above, give the letter that best matches each of the following:

1) sin (-380°) \_\_\_\_\_\_ 2. cos (130°) \_\_\_\_\_ 3. sin (-105°) \_\_\_\_\_

4) cos (-230°) \_\_\_\_\_\_ 5. sin (700°) \_\_\_\_\_ 6. cos (255°) \_\_\_\_\_\_

1. Locate the point for which the given value is the appropriate coordinate on the unit circle. Draw the right triangle and give the exact value.

A. sin (60°) = \_\_\_\_\_ B. cos (120°) = \_\_\_\_\_



C cos (135°) = \_\_\_\_\_ D. sin (270°) = \_\_\_\_\_



E. sin (315°) = \_\_\_\_\_ F. cos (90°) = \_\_\_\_\_



G. cos (210°) = \_\_\_\_\_ H. sin (240°) = \_\_\_\_\_



I. sin (-30°) = \_\_\_\_\_ J. cos (225°) = \_\_\_\_\_



1. Label these points with **exact** coordinates. ***Notice the radius***.
   1.  Point A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Point B \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. Point C \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   4. Point D \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_