VALENCIA COMMUNITY COLLEGE

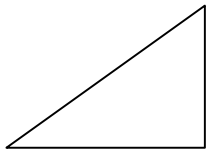
College Trigonometry

Review for test 1

********* Show all your work for full credit *********

1) Solve the right triangle (labeled as in the figure), given that $\theta = 52.7^o$ and b = 3.2 m

a = c =



2) If the radius of a circle is 3.50 m,
a) Find the degree measure of an angle subtended by an arc of length 8 m.

b) What is the area of the sector made by the above arc?

3) Find the degree measure of the following angles.

a) $\frac{5\pi}{4}$ rad = b) $\frac{11\pi}{6} rad$ c) 6.2 rad =

II) Find the radian measure of the following angles. (write the angles in terms of π radians, for example $90^\circ = \frac{\pi}{2} rad$)

a) 210° = b) 420° =

4) Convert DMS to DD & DD to DMS

5) Find trigonometric ratios for given angles

6) Find angles if trig. ratios are given.

7) Similar triangle applications.

8) Right triangle applications.

9) Use unit circle to find trig-ratios.

10) Trig-ratios for special angles.

11) If a trig-ratio is given for an angle, find other trig-ratios.