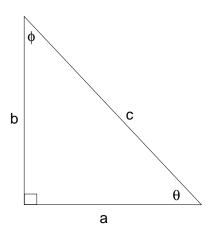
101110.

Red Belt Warm-Up Wednesday March 8, 2006

1. Answer the questions beneath the following right triangle.



1a. In terms of a and b, $c = \underline{\hspace{1cm}}$

1b. In terms of a and $c, b = \underline{\hspace{1cm}}$

1c. In terms of b and c, $a = \underline{\hspace{1cm}}$.

1d. In terms of a, b and $c, \sin \theta =$ ______.

1e. In terms of a, b and $c, \cos \theta = \underline{\hspace{1cm}}$

1e. In terms of a, b and c, $\tan \theta = \underline{\hspace{1cm}}$

1f. In terms of a, b and $c, \sin \phi = \underline{\hspace{1cm}}$.

1g. In terms of a, b and $c, \cos \phi = \underline{\hspace{1cm}}$.

1h. In terms of a, b and c, $\tan \phi = \underline{\hspace{1cm}}$.

2. The two sides of a right triangle are 3 m and 4 m long, how long is the hypotenuse? Draw a picture of the resulting triangle labeling the sides.

3. One of the angles of a right triangle is 60° . The side opposite it is 1 m long. Draw a figure labeling this angle and the opposite side that's 1 m long. Then find and label the length of the side adjacent to the angle and the length of the hypotenuse. (Hint: $\sin 60^{\circ} = \sqrt{3}/2$, $\cos 60^{\circ} = 1/2$, $\tan 60^{\circ} = \sqrt{3}$.)