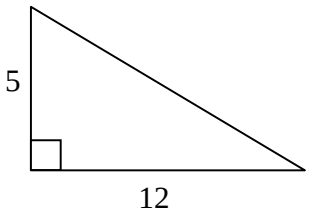
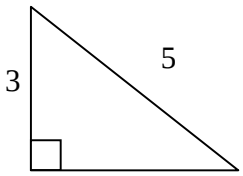
Homework 13

Work each problem below. You may complete the assignment on this paper.

1. Determine the missing edges of the following right triangles.





2. Use your calculator to solve the following trig problems. Note that parts d – f are in degrees, while g – i are in radians. Hint: your answers to d and g should be the same, as should the answers to e and h, and the answers to f and i.

   a. $\tan\theta = 1 \quad \theta =$ _____

   b. $\sin\theta = -1 \quad \theta =$ _____

   c. $\cos\theta = 0 \quad \theta =$ _____

   d. $\cos 30° =$ _____

   e. $\sin 30° =$ _____

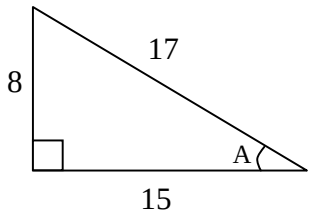
   f. $\tan 45° =$ _____

   g. $\cos\frac{\pi}{6} =$ _____

   h. $\sin\frac{\pi}{6} =$ _____

   i. $\tan\frac{\pi}{4} =$ _____

3. Use what we learned in class to write the sine, cosine, and tangent of angle A in the right triangle below. Then use your calculator to find the value of angle A in degrees and in radians.



a. $\sin A =$ _____

b. $\cos A =$ _____

c. $\tan A =$ _____

d. $A =$ _____ degrees

e. $A =$ _____ radians

Due Tuesday, June 23, at the beginning of class.