Trig Homework 4
due Friday, July 11th

1. One of the sides in a triangle is twice as long as another. The angle between these two sides is 60°. Show that this is a right triangle.

2. One side of a triangle has length 6, another has length $2\sqrt{7}$, and the angle that is opposite to that side measures 60°. Find the third side in this triangle.

3. A point $D$ lies on the side $AB$ of the triangle $ABC$. Find $CD$, given that $BC=37$, $AC = 15$, $AB = 44$, and $AD = 14$. 