1. Using your calculator, find each trigonometric ratio to three significant digits:

(a) $\cos 18.9^\circ$
(b) $\cot 15^\circ35'$
(c) $\sec 42.2^\circ$
(d) $\sin 59.3^\circ$
(e) $\csc 81^\circ20'$

2. Find each acute angle $\theta$ to the accuracy indicated:

(a) $\cos \theta = 0.4$ (to the nearest degree)
(b) $\theta = \arctan (3.821)$ (to the nearest minute)
3. Solve the right triangle (labeled as in the figure) given the information in each problem. You may use inverse trig buttons to get the angles from the ratios, and you may use pythagorean theorem \((a^2 + b^2 = c^2)\) to find the third side if you have the other two.

(a) \(\theta = 83.7^\circ, b = 3.21\) km

(b) \(b = 63.6\) ft, \(c = 134\) ft (angles rounded to the nearest 10')