TRIGONOMETRY UNIT #1 - - REVIEW SHEET - - SCIENTIFIC or GRAPHING CALCULATOR okay

I. Find the following to the nearest hundredth.

1. $\csc 53°$ **2.** $\sin 65°$ **3.** $\tan 75°$ **4.** $\sec \dfrac{5\pi}{9}$ **5.** $\cos 67°$

6. $\cot 171°$ **7.** $\sin \dfrac{9\pi}{10}$ **8.** $\tan 335°$ **9.** $\cos 26°$ **10.** $\cot(-55°)$

II. Draw the triangle and show all work. Round your final answers to the nearest tenth.

1. From the top of a lighthouse $163\,ft$ above sea level the angle of depression of a ship at sea is $31°20'$. Find the distance of the ship from the base of the lighthouse.

2. A tree casts a shadow on the ground because of the sun's rays. The length of the shadow is $75\,ft$. The angle of elevation is $32°$. Find the height of the tree.

3. The measure of angle B is $56°$. The measure of angle C is $90°$ and side c measures 20. Solve the triangle.

III. Use the graphing calculator to convert each measure to the nearest hundredth.

1. $43°38'12''$ **2.** $169°45'30''$