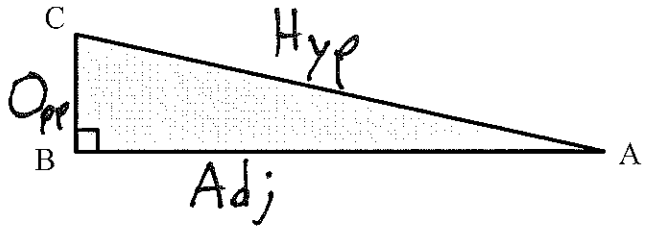
Trigonometry Review Name:_____

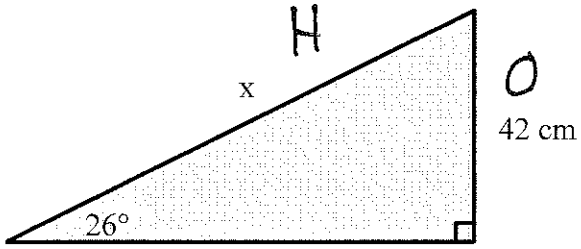
1. Use your calculator to find the following to 4 decimal places
   a) sin 40° 0.6428

   b) cos 56° 0.5592

2. Label the following triangle's sides (opp, adj, and hyp) for angle A



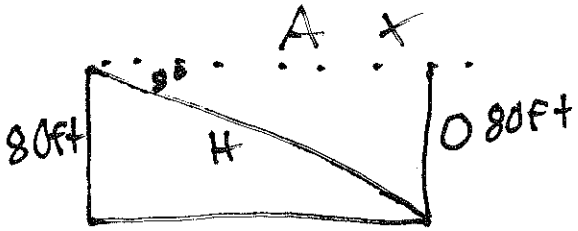
3. Use trigonometry to find the length of the side marked x



$\frac{\sin 26}{1} = \frac{42}{x}$

$x = 95.81$ cm

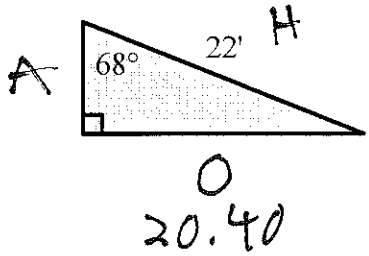
4. The angle of depression of a lighthouse to a ship traveling towards it is 8°. If the lighthouse is 80 feet above sea level how far away is the ship?



$\frac{\tan 8}{1} = \frac{80}{x}$

569.23 ft

5. Find the perimeter of the following triangle using trigonometry.



$\sin 68 = \frac{x}{22}$ 20.40

$\cos 68 = \frac{x}{22}$ 8.24

$P = 20.4 + 22 + 8.24 = 50.64'$