

I. Find the value of angle θ . Round to the nearest degree.

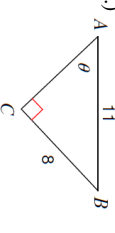
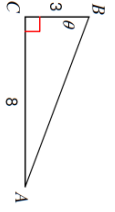
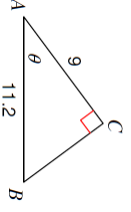
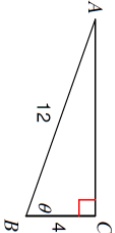
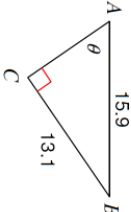
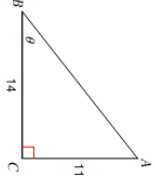
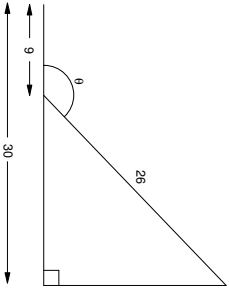
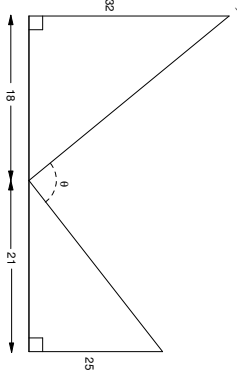
1.) $\cos \theta = 0.1736 \rightarrow$ _____ 2.) $\sin \theta = 0.9511 \rightarrow$ _____ 3.) $\tan \theta = 0.6249 \rightarrow$ _____

II. Evaluate the following using the definitions of the inverse trig ratios.


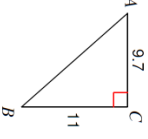
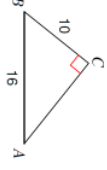
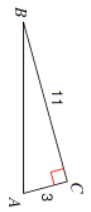
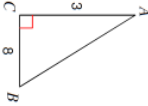
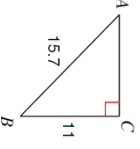
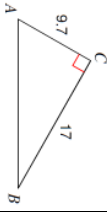
4.) $\cos(\arccos \frac{2}{3}) \rightarrow$ _____ 5.) $\sin(\tan^{-1} 0) \rightarrow$ _____ 6.) $\tan(\arcsin 1) \rightarrow$ _____

7.) $\sin\left(\sin^{-1} \frac{4}{12}\right) \rightarrow$ _____ 8.) $\cos\left(\arcsin \frac{\sqrt{3}}{2}\right) \rightarrow$ _____ 9.) $\tan\left(\cos^{-1} \frac{\sqrt{2}}{2}\right) \rightarrow$ _____

III. Find the measure of angle θ (use the appropriate letter). Round to nearest tenth. Show work!

10.) 	11.) 	12.) 
13.) 	14.) 	15.) 
16.) 	17.) 	

IV. Solve each triangle. Round all answers to nearest tenth. Show all of your work!!

18.) 	19.) 	20.) 	21.) 
22.) 	23.) 	24.) 	25.) 