

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

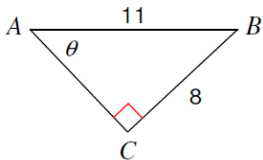
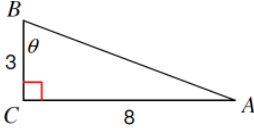
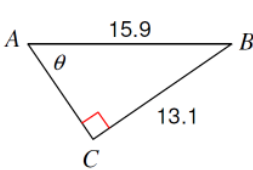
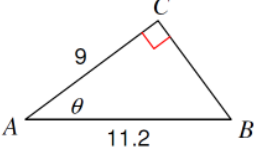
1.) $\cos \theta = 0.1736 \rightarrow$ _____ 2.) $\sin \theta = 0.9511 \rightarrow$ _____ 3.) $\tan \theta = 0.6249 \rightarrow$ _____

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

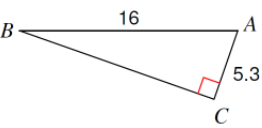
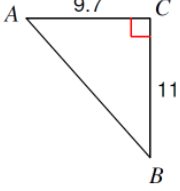
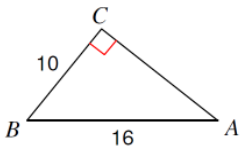
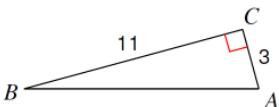
4.) $\cos (\arccos \frac{2}{3}) \rightarrow$ _____ 5.) $\sin (\tan^{-1} 0) \rightarrow$ _____ 6.) $\tan (\arcsin 1) \rightarrow$ _____

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

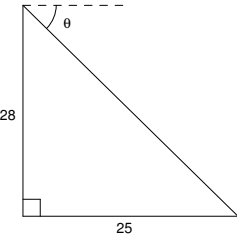
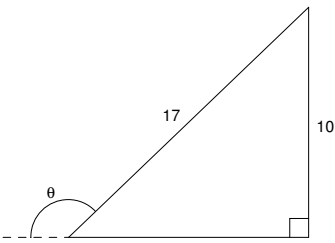
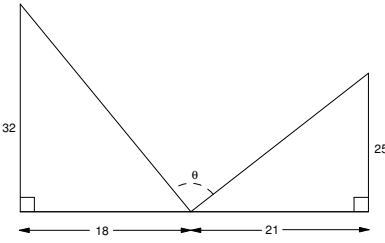
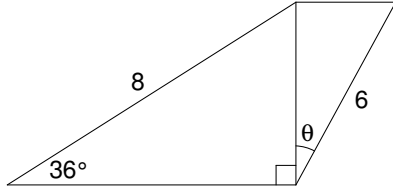
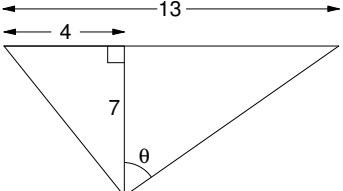
III. Find the measure of angle θ (use the appropriate letter). Round to nearest tenth. Show work!

<p>10.)</p> 	<p>11.)</p> 	<p>12.)</p> 	<p>13.)</p> 
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IV. Solve each triangle. Round all answers to nearest tenth. Show all of your work!!

<p>14.)</p> 	<p>15.)</p> 	<p>16.)</p> 	<p>17.)</p> 
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V. Find the measure of angle θ . Round to tenth place. Must show work!

<p>18.)</p> 	<p>19.)</p> 	<p>20.)</p> 
<p>21.)</p> 	<p>22.)</p> 	<p>23.)</p> 