

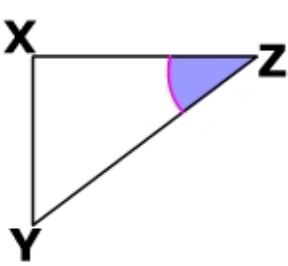
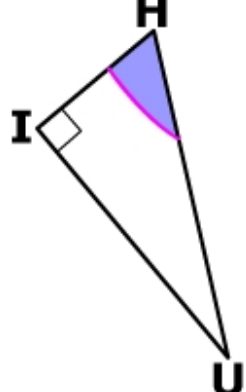
SOHCAHTOA WORKSHEET

(Sine, cosine and tangent)

Part I

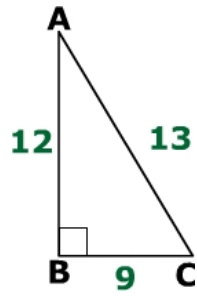
Identifying Opposite, Adjacent and Hypotenuse

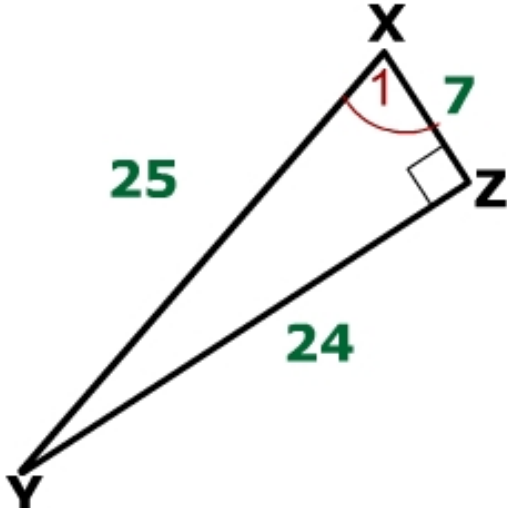
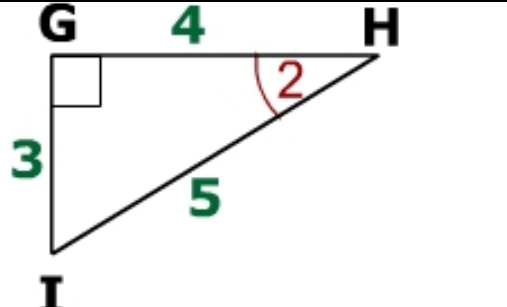
Answers available at www.mathwarehouse.com/trigonometry/sine-cosine-tangent.html

<p>1. Identify the side that is opposite of $\angle YZX$</p> <p>_____</p> <p>2. Identify the side that is adjacent to $\angle YZX$</p> <p>_____</p>	
<p>3. Identify the sides that are opposite and adjacent to $\angle IHU$.</p> <p>Opposite Side: _____</p> <p>Adjacent Side: _____</p>	

Part II

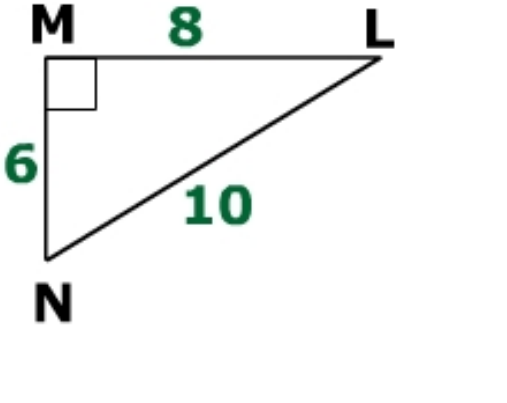
Answers @ www.mathwarehouse.com/trigonometry/sine-cosine-tangent-practice.html

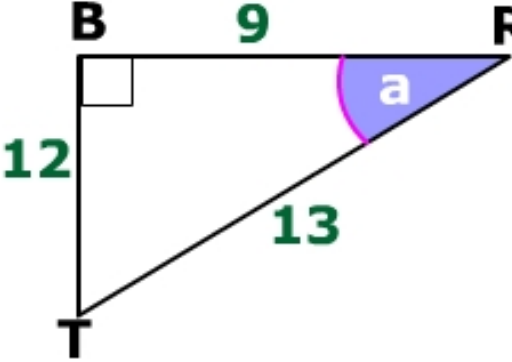
<p>1. How long is the side opposite of $\angle ACB$?</p> <p>2. How long is the hypotenuse?</p> <p>3. What is $\sin(\angle ACB)$?</p> <p>4. How long is the side adjacent to $\angle ACB$?</p> <p>5. What is $\cos(\angle ACB)$?</p>	
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<p>6. How long is the side opposite of $\sphericalangle 1$?</p> <p>7. How long is the hypotenuse?</p> <p>8. What is $\sin(\sphericalangle 1)$?</p> <p>9. How long is the side adjacent to $\sphericalangle 1$?</p> <p>10. What is $\cos(\sphericalangle 1)$?</p>	
<p>11. What is $\cos(\sphericalangle 2)$?</p> <p>12. What is $\sin(\sphericalangle 2)$?</p> <p>13. What is $\tan(\sphericalangle 2)$?</p>	

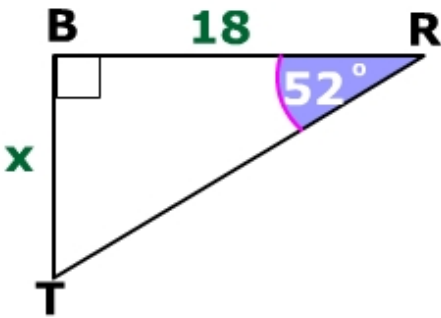
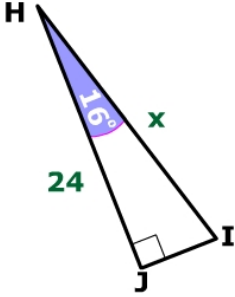
III. Sine, Cosine, Tangent. Problems

Answers @ www.mathwarehouse.com/trigonometry/sine-cosine-tangent-practice2.html

<p>1. What side is adjacent to $\sphericalangle MLN$?</p> <p>2. What is the hypotenuse?</p> <p>3. Calculate $\cos(\sphericalangle MLN)$:</p> <p>4. Calculate $\cos(\sphericalangle LMN)$</p>	
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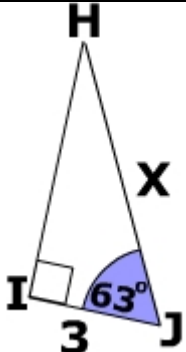
<p>Find the sine, cosine and tangent of $\angle a$.</p> <p>5. $\sin(a)$: _____</p> <p>6. $\cos(a)$: _____</p> <p>7. $\tan(a)$: _____</p>	
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More challenging Problems:

<p>8. What is X?</p> <p>9. How long is the hypotenuse of this triangle?</p>	
<p>10. What is X?</p> <p>11. How long is the side IJ?</p>	

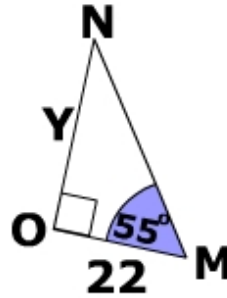
IV Using SOHCAHTOA to find a side of a triangle.

Answers Below at www.mathwarehouse.com/trigonometry/sine-cosine-tangent-practice3.html

<p>1) What is x in the triangle on the left?</p> <p>2) What is the length of \overline{HI} ?</p>	
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3. What is Y in the triangle on the left?

4. What is the length of \overline{NM} ?



5. Use SOHCAHTOA to find the value of X.

6. What is another way that you could find the value of X?

