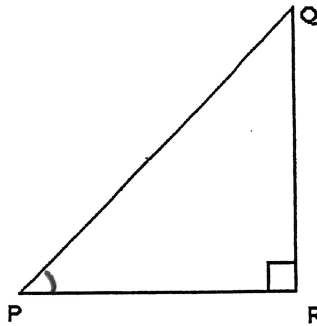
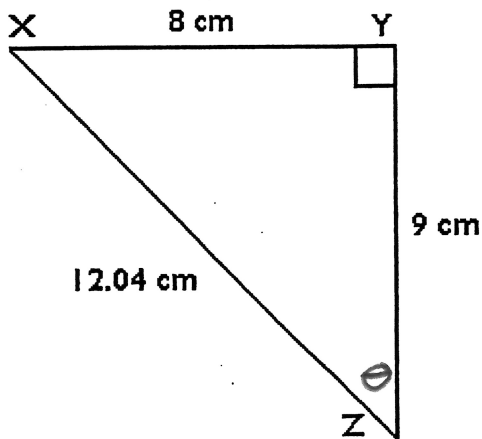


MFM 2P1 TRIGONOMETRY PRACTICE TEST

1. Label the sides of the following triangle with respect to $\angle P$:



2. Consider $\triangle XYZ$. State the following trigonometric ratios in decimal form. Round to two decimals.



$\tan \theta =$

$\sin \theta =$

$\cos \theta =$

3. Evaluate the following ratios to 2 decimal places.

a) $\sin 49^\circ$

b) $\cos 220^\circ$

c) $\tan 114^\circ$

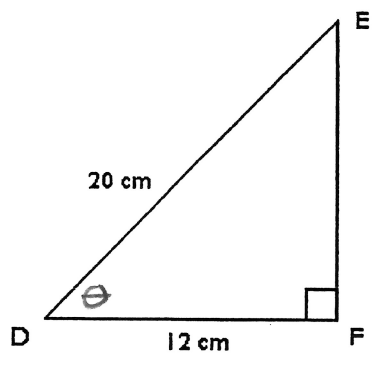
4. Evaluate the following angles to the nearest degree.

a) $\cos^{-1}(0.76)$

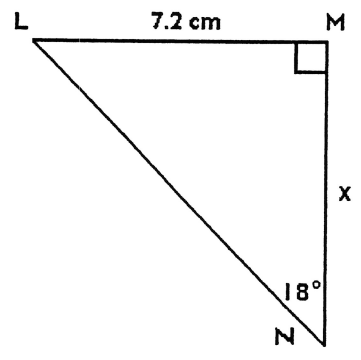
b) $\tan^{-1}\left(\frac{11}{3}\right)$

c) $\sin^{-1}(0.2)$

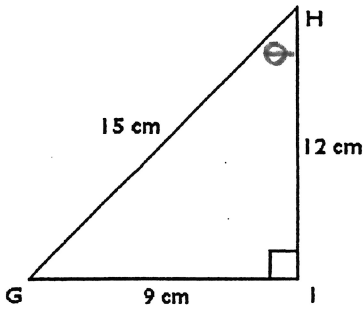
5. Determine the measure of $\angle D$ in $\triangle DEF$. Round to the nearest degree.



6. Determine the measure of the unknown side in $\triangle LMN$. Round to the nearest centimeter.



7. For the side measures given, determine if the sine ratio of $\angle H$ is correct.
Explain your solution.



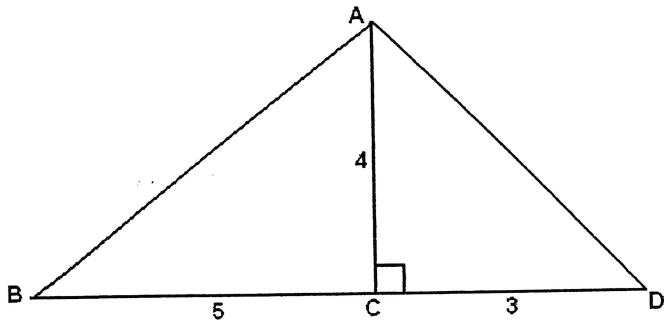
$$\sin H = \frac{15}{9} ?$$

CORRECT INCORRECT (Circle)

Why?

8. George is flying a kite on a string 175 m long. The string makes an angle of 70° with the ground. George is holding the end of the string 1.5 m above the ground. How high is the kite? Round to 1 decimal place.

9. Use trigonometry to calculate the total measure of $\angle BAD$. Round to 1 decimal place.



10. A lifeguard is sitting at the top of her post. Suddenly she hears a child calling for help in the water. Her chair is 3 meters high and the angle of depression is 53° . If her upper body is 1 meter in length, how far is the swimmer from the base of the chair? Round to the nearest meter.