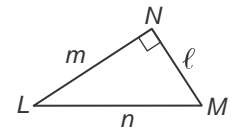


8-4 Practice

Trigonometry

Find $\sin L$, $\cos L$, $\tan L$, $\sin M$, $\cos M$, and $\tan M$.
Express each ratio as a fraction and as a decimal to the nearest hundredth.

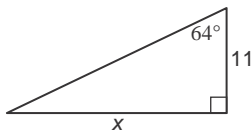


1. $l = 15, m = 36, n = 39$

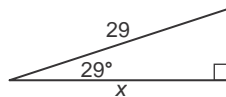
2. $l = 12, m = 12\sqrt{3}, n = 24$

Find x . Round to the nearest hundredth.

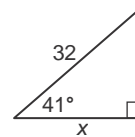
3.



4.

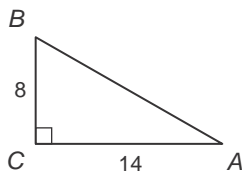


5.

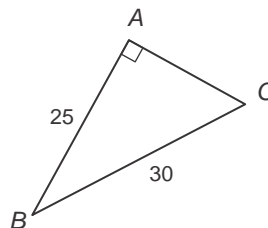


Use a calculator to find the measure of $\angle B$ to the nearest tenth.

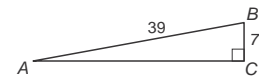
6.



7.



8.



9. **GEOGRAPHY** Diego used a theodolite to map a region of land for his class in geomorphology. To determine the elevation of a vertical rock formation, he measured the distance from the base of the formation to his position and the angle between the ground and the line of sight to the top of the formation. The distance was 43 meters and the angle was 36° . What is the height of the formation to the nearest meter?

