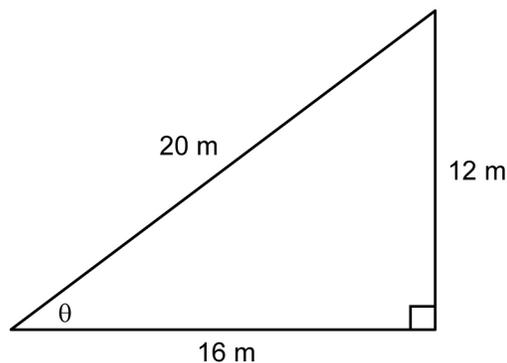


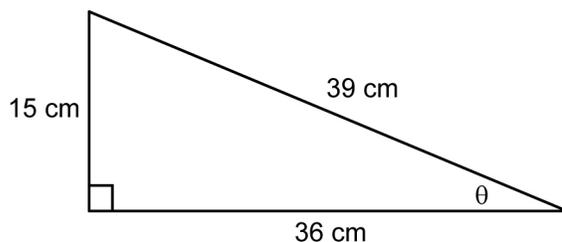
Section 7.4 Practice Master

1. Find $\sin \theta$, $\cos \theta$, and $\tan \theta$ for each triangle, expressed as fractions in lowest terms.

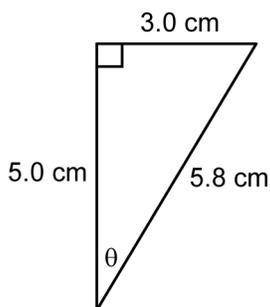
a)



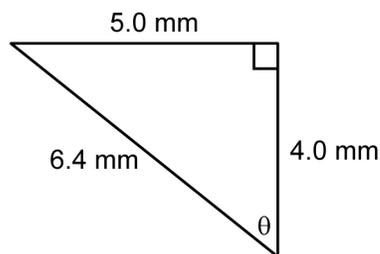
b)



c)

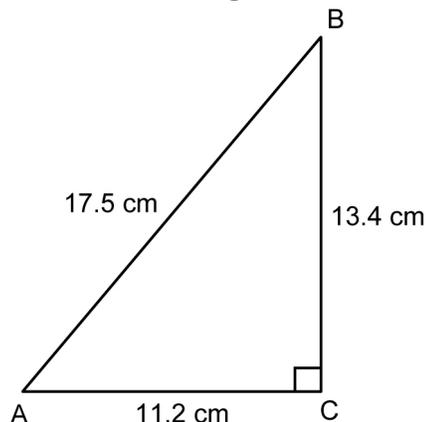


d)

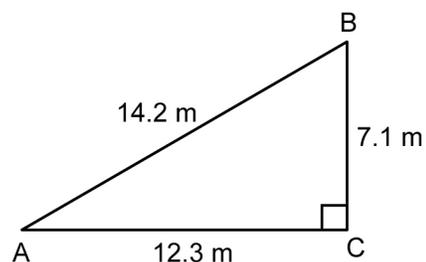


2. Find the three primary trigonometric ratios for $\angle A$, to four decimal places.

a)



b)



3. Evaluate with a calculator. Round your answers to four decimal places.

- a) $\sin 72^\circ$
 b) $\sin 16^\circ$
 c) $\sin 64^\circ$
 d) $\sin 23^\circ$

4. Evaluate with a calculator. Round your answers to four decimal places.

- a) $\cos 42^\circ$
 b) $\cos 85^\circ$
 c) $\cos 14^\circ$
 d) $\cos 36^\circ$

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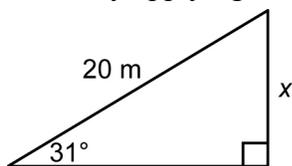
5. Find the measure of each angle, to the nearest degree.

- a) $\sin \theta = 0.5189$
- b) $\sin Q = 0.8476$
- c) $\sin \theta = \frac{3}{8}$
- d) $\sin R = \frac{9}{11}$

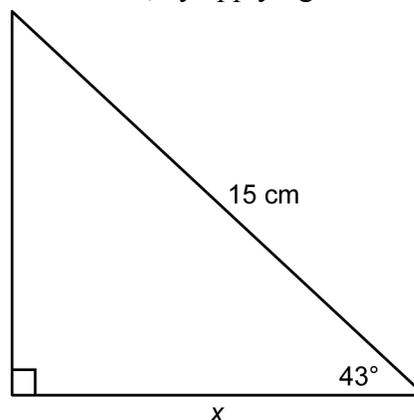
6. Find the measure of each angle, to the nearest degree.

- a) $\cos \theta = 0.7258$
- b) $\cos W = 0.3194$
- c) $\cos \theta = \frac{5}{9}$
- d) $\cos B = \frac{9}{10}$

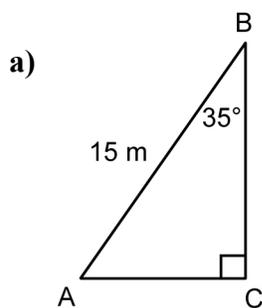
7. a) Find the value of x , to the nearest tenth of a metre, by applying the sine ratio.



b) Find the value of x , to the nearest tenth of a centimetre, by applying the cosine ratio.



8. Solve each triangle. Round side lengths to the nearest tenth of a metre.



b) In $\triangle PQR$, $\angle P = 34^\circ$, $\angle Q = 90^\circ$, and $q = 20$ m.