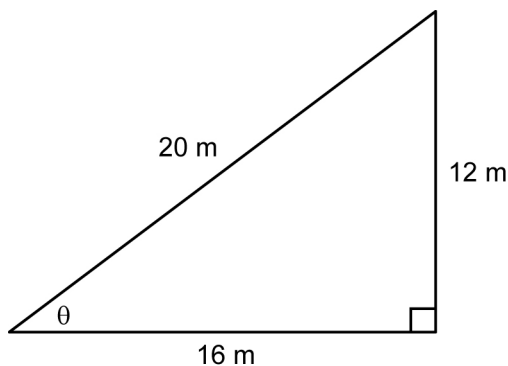


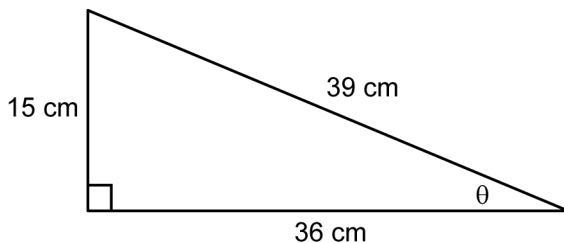
## Section 7.4 Practice Master

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

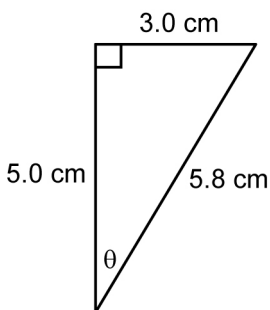
a)



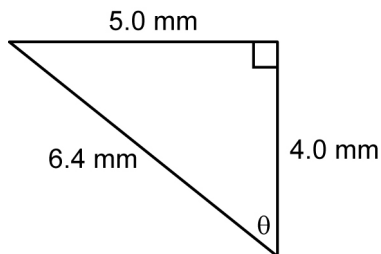
b)



c)

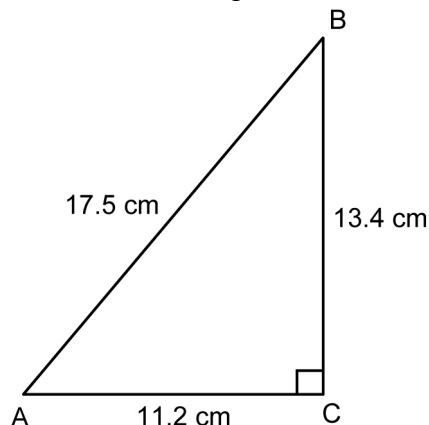


d)

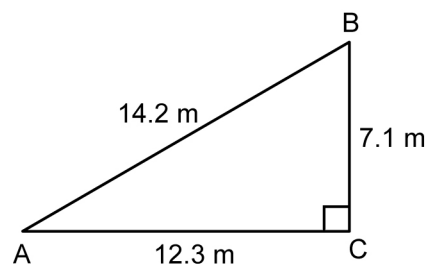


2. Find the three primary trigonometric ratios for  $\angle A$ , to four decimal places.

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)  $\cos 36^\circ$

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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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.

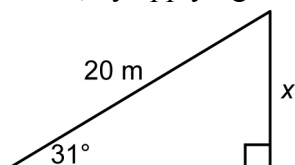
a)  $\cos \theta = 0.7258$

b)  $\cos W = 0.3194$

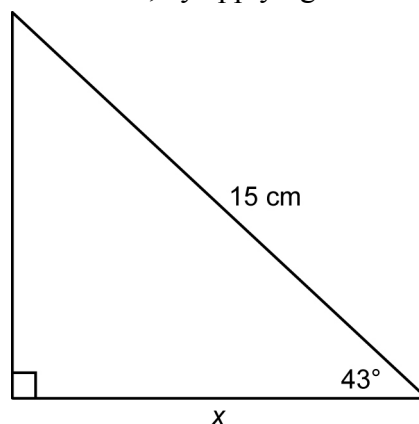
c)  $\cos \theta = \frac{5}{9}$

d)  $\cos B = \frac{9}{10}$

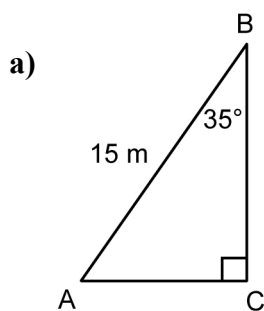
7. a) Find the value of  $x$ , to the nearest tenth of a metre, by applying the sine ratio.



- 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.