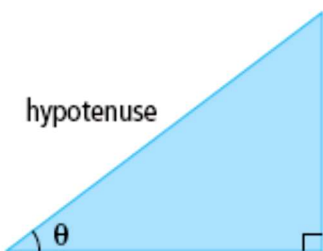


Unit 5: Non-Right Triangle Trigonometry

5.1 Right Angle Trigonometry Review



Ex. Write Trigonometric Ratios

Write each trigonometric ratio.

a) $\sin A$

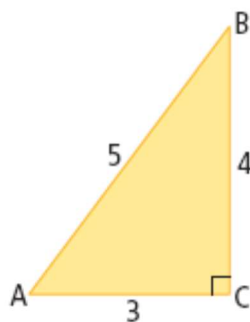
b) $\cos A$

c) $\tan A$

d) $\sin B$

e) $\cos B$

f) $\tan B$



Ex. Evaluating ratios & finding angles

a) Evaluate each ratio, to four decimal places.

$\sin 42^\circ$

$\cos 68^\circ$

$\tan 25^\circ$

b) Determine each angle measure, to the nearest degree.

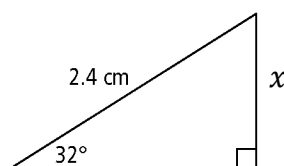
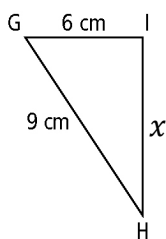
$\sin \theta = 0.4771$

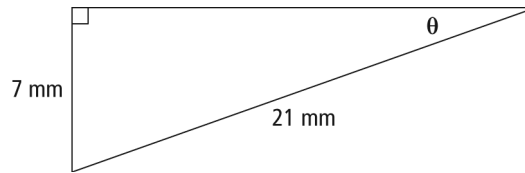
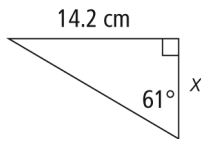
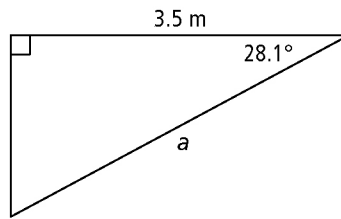
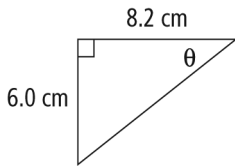
$\cos \beta = 0.7225$

$\tan \theta = \frac{5}{4}$

Ex. Finding missing sides and angles

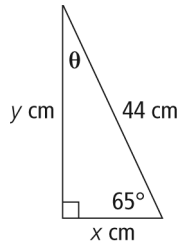
Determine the indicated missing side or angle.





Ex. Solving a triangle

Determine the missing measurements in the right triangle. Express side lengths to the nearest tenth of a centimetre and angles to the nearest degree.



Ex. Solving Problems

A small boat is 95 m from the base of a lighthouse that has a height of 36 m above sea level. Calculate the angle of elevation from the boat to the top of the lighthouse. Express your answer to the nearest degree.

A person flies a kite such that the angle of depression from the kite to the person is 62° . Determine the height of a kite above the ground if the kite string extends 480 m from the ground. Express your answer to the nearest tenth of a metre.



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