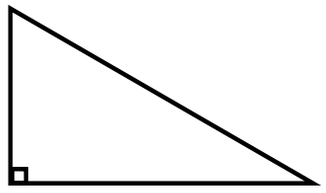
2.4 Sine and Cosine

If ∠A is an acute angle in a right triangle, then:



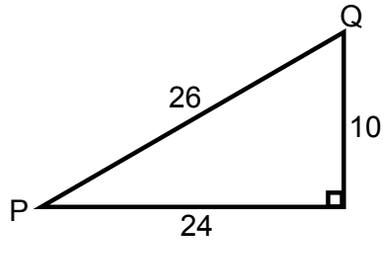
$\sin\angle A =$ _____

$\cos\angle A =$ _____

remember: SOH CAH TOA

Sin = Cos = Tan =

ex. Determine the cos and sin of ∠P and ∠Q



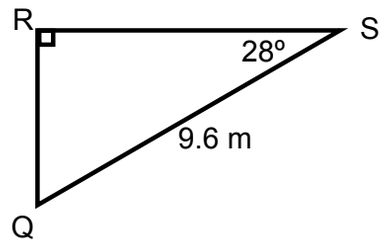
ex. Determine the measure of ∠P and ∠Q to the nearest degree.

ex. Drunken trees are a result of melting permafrost in the far north. Find the angle of a tree if it was originally 15.3 m tall but now stands only 14 m high.

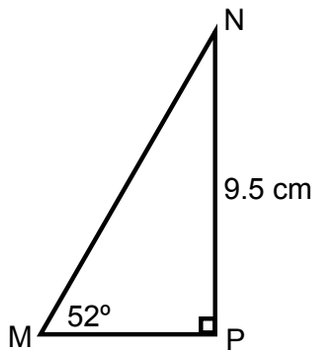
pg. 95 #4, (6-10)c, 11-13, 17

2.5 Determining Lengths with Sine and Cosine

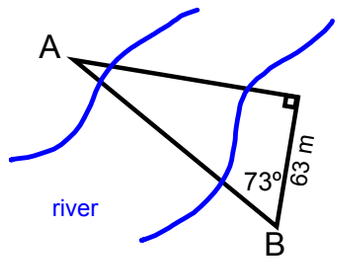
ex. Determine the length of $\overline{RS}$ to the nearest tenth of a meter.



ex. Determine the length of $\overline{MN}$ to the nearest tenth of a meter.



ex. What is the distance between tower A and tower B to the nearest meter?



pg. 101 #3ab, 4ab, 6, 7, 9, 11-14 Quiz in 2 days (review pg. 104 #1-5)