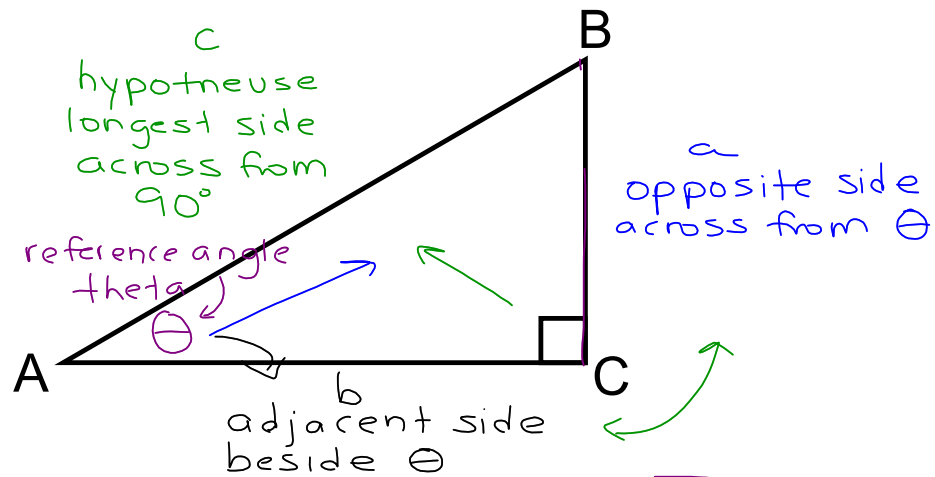


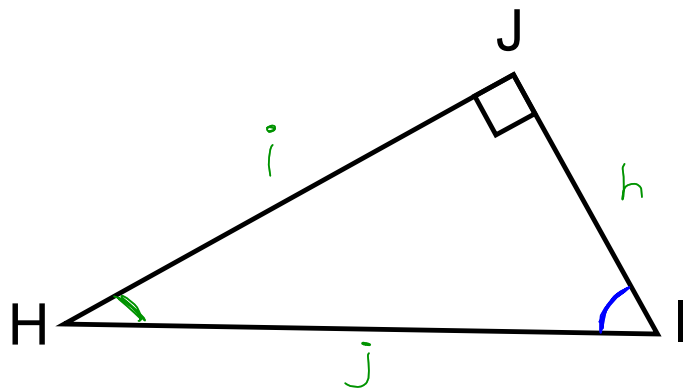
Trigonometry

- we use trig to find missing sides and angles
- the Δ must be a right Δ



From $\angle A$ the opposite side is a or \overline{BC}
 From $\angle A$ the adjacent side is b or \overline{AC}

From $\angle B$ the opp side is b or \overline{AC}
 From $\angle B$ the adj side is a or \overline{BC}



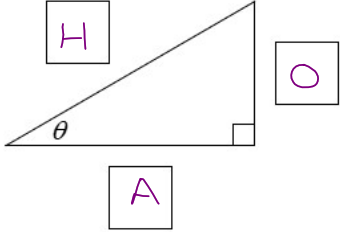
For ΔHIJ

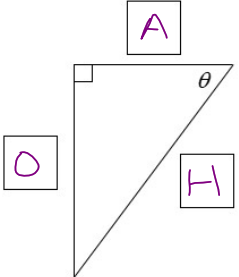
- 1) What side is the hypotenuse? j
- 2) What side is adj to $\angle H$? i
- 3) What side is opp to $\angle H$? h
- 4) What side is adj to $\angle I$? h
- 5) What side is opp to $\angle I$? i

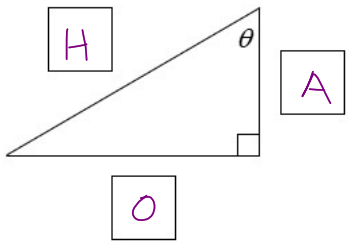
IDENTIFYING THE SIDES OF A RIGHT TRIANGLE

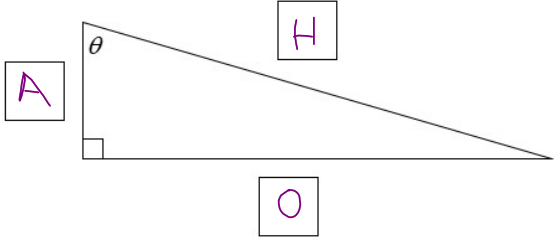
1. Label the sides to the correct position for each triangle.

Use H for hypotenuse, A for adjacent and O for opposite.

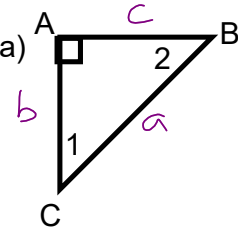
a) 

b) 

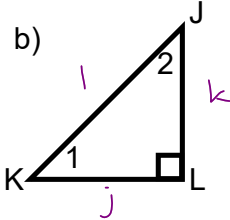
c) 

d) 

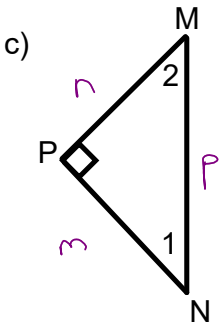
2. In each triangle below, identify the hypotenuse, the opposite side, and the adjacent side in respect to angles 1 and 2.

a) 

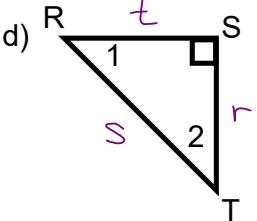
Hyp a
 Opp $\angle 1$ c
 Opp $\angle 2$ b
 Adj $\angle 1$ b
 Adj $\angle 2$ c

b) 

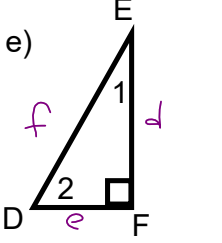
Hyp j
 Opp $\angle 1$ k
 Opp $\angle 2$ j
 Adj $\angle 1$ j
 Adj $\angle 2$ k

c) 

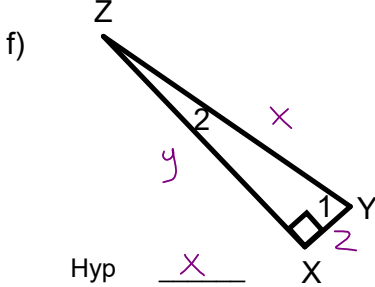
Hyp p
 Opp $\angle 1$ n
 Opp $\angle 2$ m
 Adj $\angle 1$ m
 Adj $\angle 2$ n

d) 

Hyp s
 Opp $\angle 1$ r
 Opp $\angle 2$ t
 Adj $\angle 1$ t
 Adj $\angle 2$ r

e) 

Hyp f
 Opp $\angle 1$ e
 Opp $\angle 2$ d
 Adj $\angle 1$ d
 Adj $\angle 2$ e

f) 

Hyp x
 Opp $\angle 1$ y
 Opp $\angle 2$ z
 Adj $\angle 1$ z
 Adj $\angle 2$ y