

What do the letters in "SOHCAHTOA" represent?

S = sine
O = opposite
H = hypotenuse
C = cosine
A = adjacent
H = hypotenuse
T = tangent
O = opposite
A = adjacent



right
beside

$$\sin = \frac{O}{H}$$

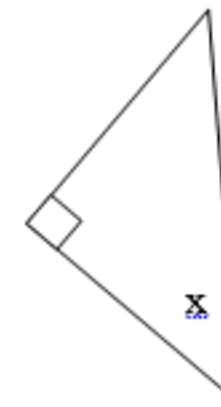
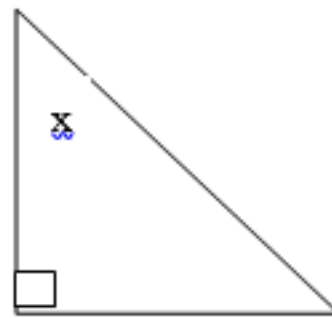
$$\cos = \frac{A}{H}$$

$$\tan = \frac{O}{A}$$

Label The sides of the following triangles for angle X
Adjacent, Opposite, Hypotenuse. You may use A, O and H to stand for the full word.

A
H
O

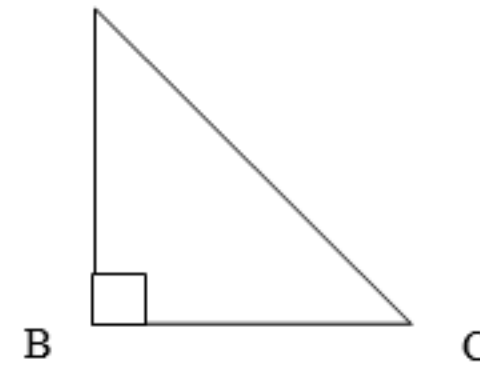
O
A
H



b
c
a

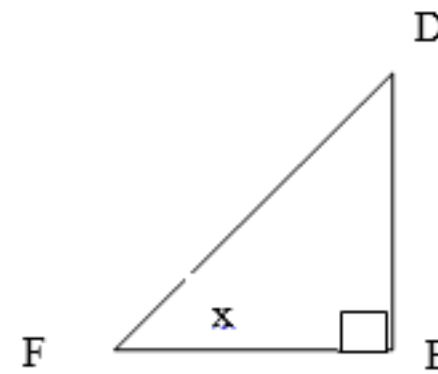
Fill in the blanks:

- a) In $\triangle ABC$, the hypotenuse is _____,
the opposite to C is _____,
the adjacent to A is _____.



hypotenuse
adjacent
opposite

b) In $\triangle EDF$, e is the _____ or DF
d is the _____
and f is the _____



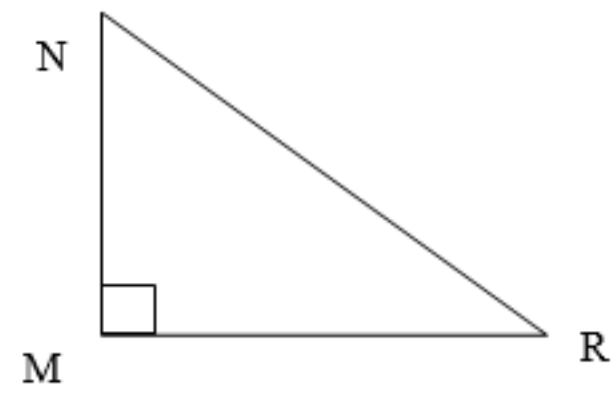
Sin R=

N

$$\sin R = \frac{h}{m}$$

$$\cos R = \frac{b}{m}$$

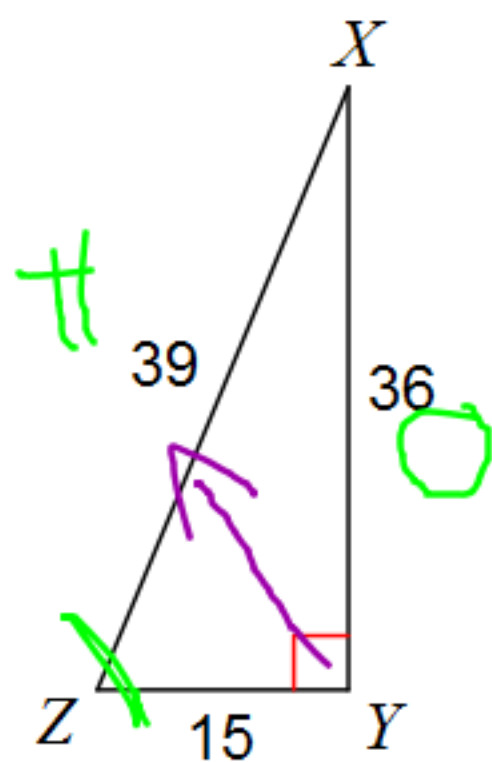
$$\tan R = \frac{r}{n}$$



Tan R =

Find the value of each trigonometric ratio to the nearest ten-thousandth.
Show several steps.

1) $\sin Z$



$$\sin Z = \frac{O}{H}$$

$$= \frac{36}{39}$$

$$= 0.923076$$

$$= 0.9231$$

Find the value of each trigonometric ratio to the nearest ten-thousandth.
Show several steps.

$$\cos Z = \frac{A}{H}$$

$$= \frac{14}{50}$$

$$= 0.2800$$

5) $\cos Z$

