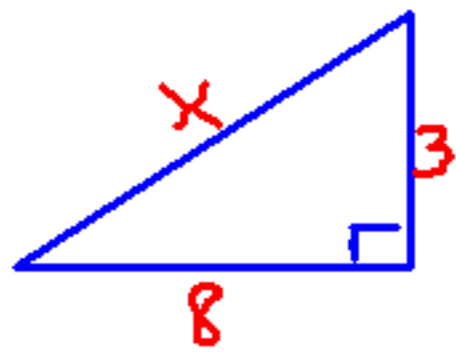
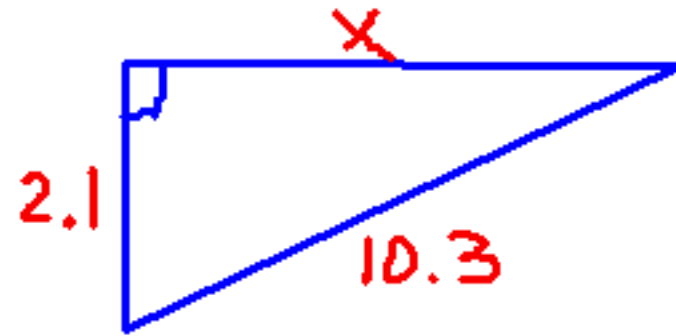


Bell Activity: Find the missing measures:

PAIR UP!



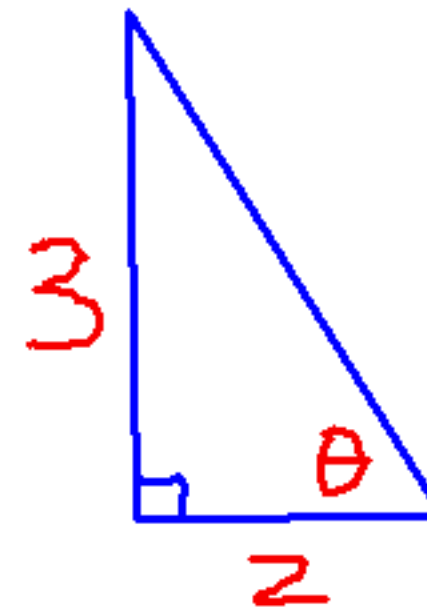
Give EXACT answer!



AE

Round to 2 decmials!

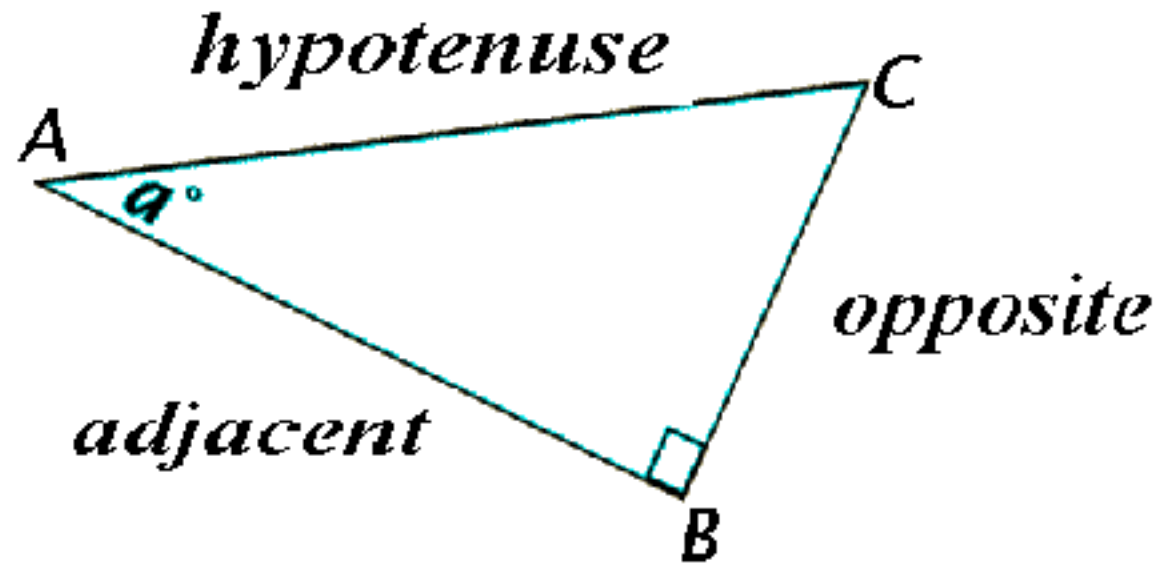
Enter this one on AE!

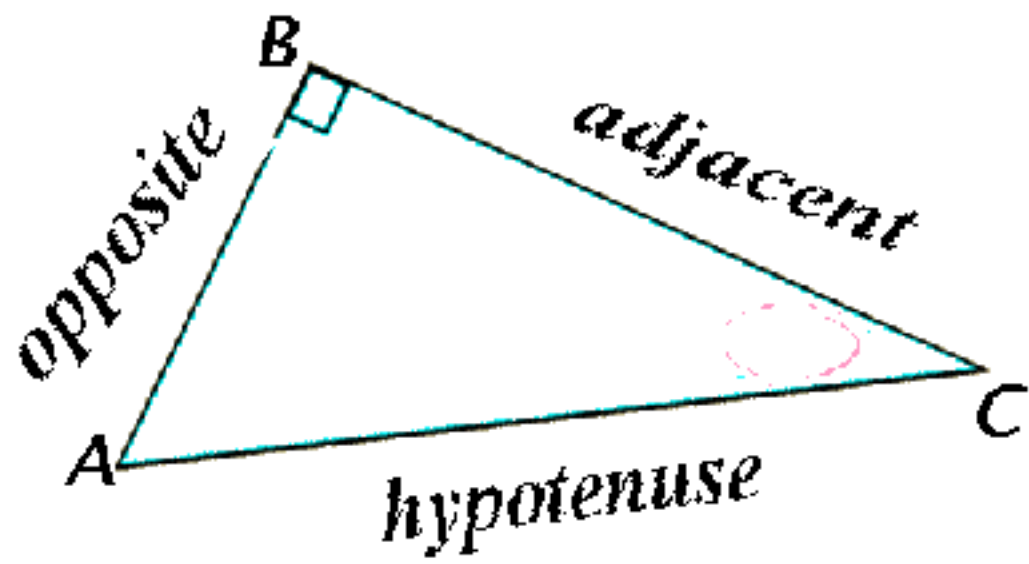


Round to 2 decimals

5.2-Trigonometric Ratios in Right Triangles

Right Triangle--a triangle with a right angle





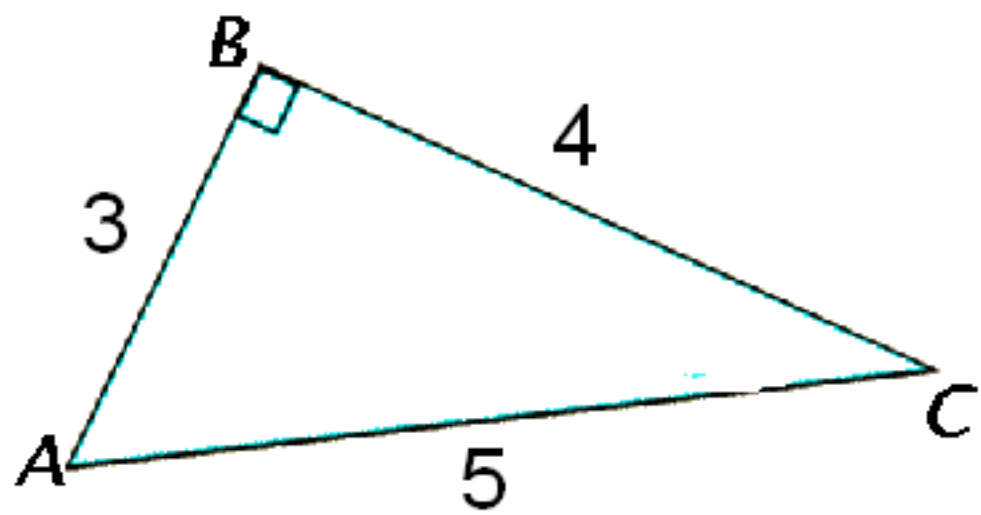
sine
cosine
tangent

} trigonometric ratios

$$\sin C =$$

$$\cos C =$$

$$\tan C =$$



sine
cosine
tangent } trigonometric ratios

opposite =

adjacent =

hypotenuse =

$$\sin C = \frac{\text{opp}}{\text{hyp}} =$$

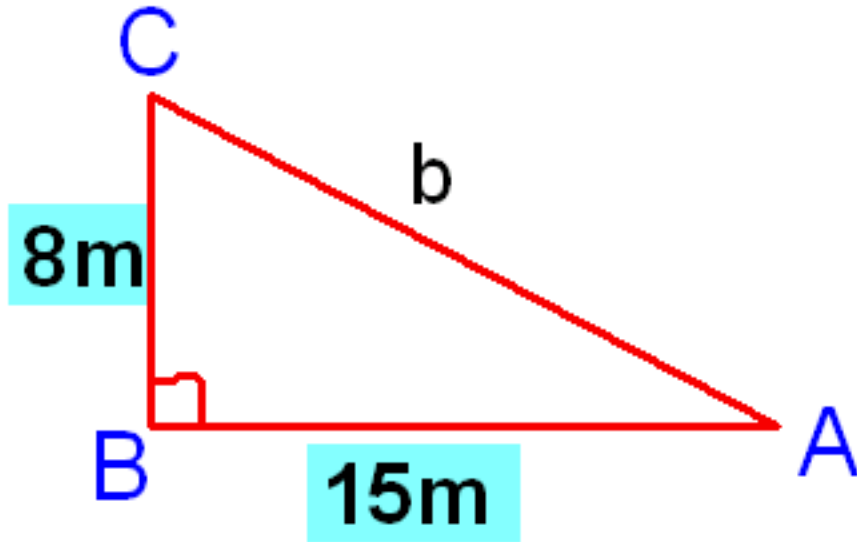
AE

AE

see ex 1 on pg. 285

exact vs. approximate

UDO:



$$\sin A = \text{AE}$$

$$\cos A =$$

$$\tan A = \text{AE}$$

$$b = ?$$

AE

Reciprocal Trigonometric Identities

$$\text{cosecant } \theta = \frac{1}{\sin \theta} = \text{csc } \theta$$

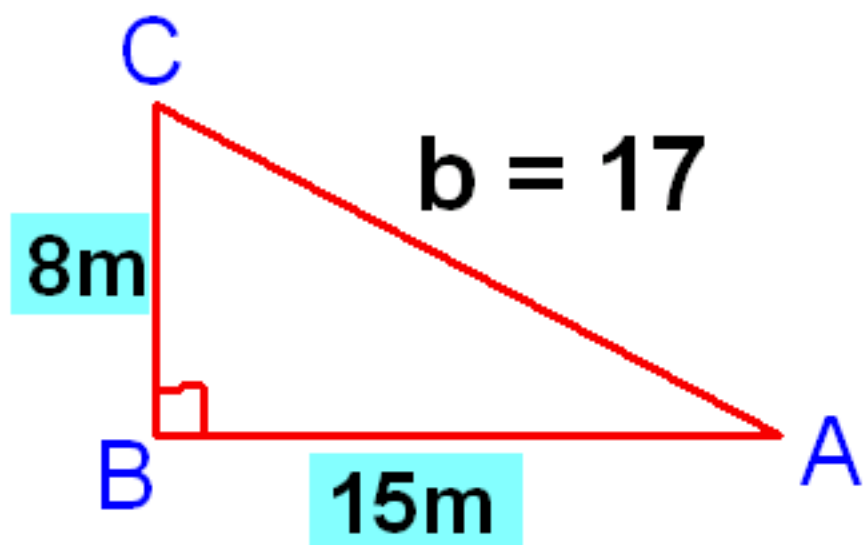
$$\text{secant } \theta = \frac{1}{\cos \theta} = \text{sec } \theta$$

$$\text{cotangent } \theta = \frac{1}{\cot \theta} = \text{cot } \theta$$

$$\text{If } \sin \theta = \frac{\text{opp}}{\text{hyp}} \text{ then } \text{csc } \theta = \frac{\text{hyp}}{\text{opp}}$$

$$\text{If } \sin \theta = 0.34 \text{ then } \text{csc } \theta =$$

NOTE:
 θ represents an
unknown angle
measure!



$$\sin A = \frac{8}{17}$$

$$\cos A = \frac{15}{17}$$

$$\tan A = \frac{8}{15}$$

$$b^2 = 8^2 + 15^2$$

$$b = 17$$

$$\csc A = ?$$

AE

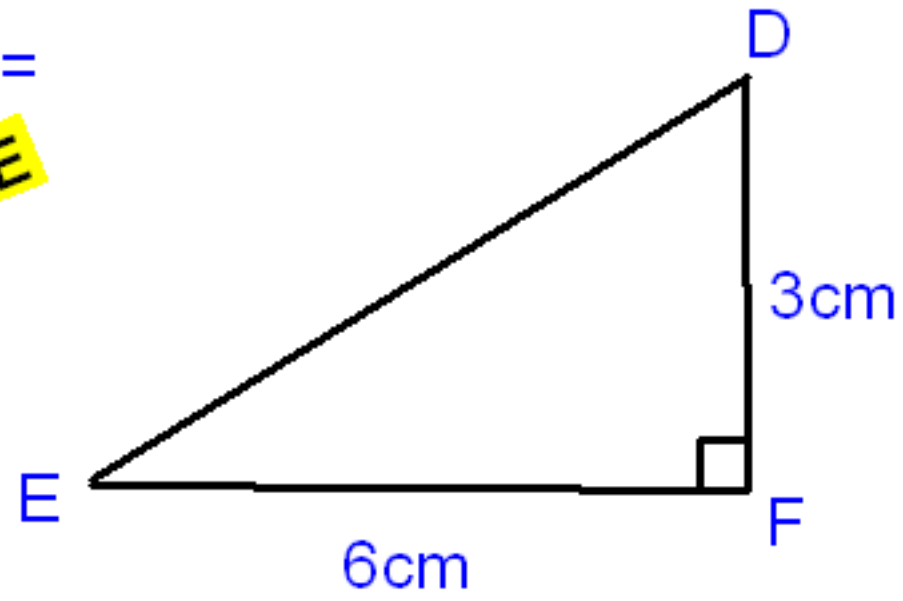
$$\sec A = ?$$

$$\cot A = ?$$

EX: Find the values of the six trig ratios for $\angle E$

ED =

AE



ALWAYS
simplify and
rationalize the
denominator!!

$\sin E =$

$\csc E =$

AE

$\cos E =$

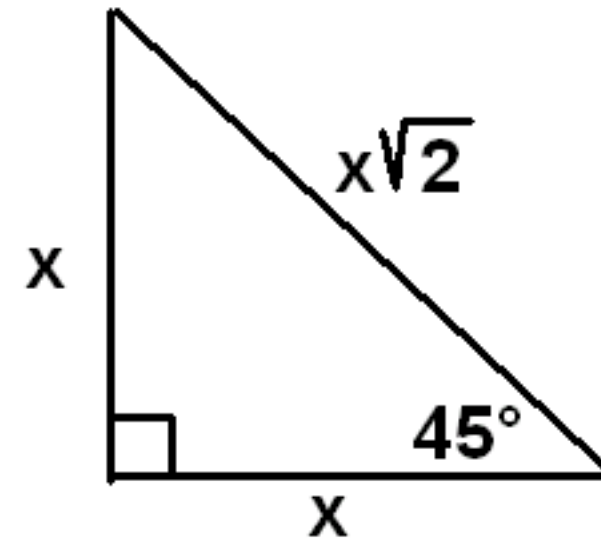
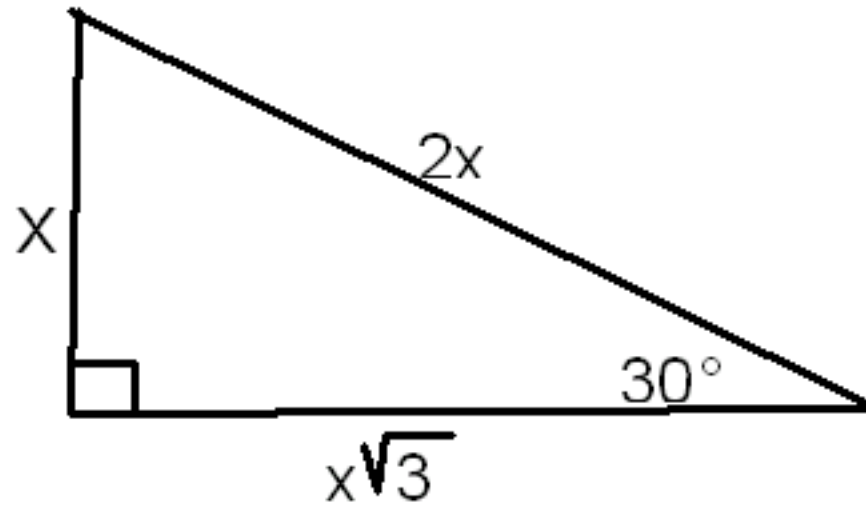
$\sec E =$

$\tan E =$

AE

$\cot E =$

Special Right Triangles: 30° - 60° - 90° & 45° - 45° - 90°



Special Right Triangles

