

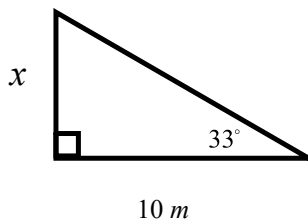
**Today's Learning Goal(s):** By the end of the class, I will be able to:

- evaluate the primary and reciprocal trigonometric ratios.
- find unknowns sides and angles using the primary and reciprocal trigonometric ratios.

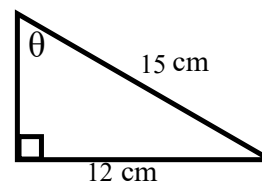
MCR 3UI **5.1 Trigonometric Ratios of Acute Angles**

Date: \_\_\_\_\_

Ex.1 Calculate  $x$ ,  
to two decimal places.

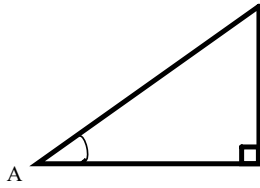


Ex.2 Calculate  $\theta$ ,  
to one decimal place.



Homework: p. 274 # 1 – 8 AND pp. 280-282 #1 – 12, 14 [18, 20]

## SOH CAH TOA



$$\sin A = \frac{opp}{hyp} \quad \cos A = \frac{adj}{hyp} \quad \tan A = \frac{opp}{adj}$$

## RECIPROCAL Trig Ratios

COSECANT OF "A"

$$\csc A = \frac{hyp}{opp}$$

$$\csc A = \frac{1}{\sin A}$$

SECANT OF "A"

$$\sec A = \frac{hyp}{adj}$$

$$\sec A = \frac{1}{\cos A}$$

COTANGENT OF "A"

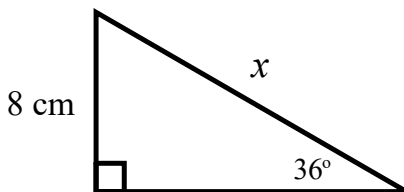
$$\cot A = \frac{adj}{opp}$$

$$\cot A = \frac{1}{\tan A}$$

**The "rule" of "co"**

Ex.3 Using a reciprocal trig ratio, calculate  $x$ , to two decimal places.

**Label 1st**



Ex.4 Calculate  $\theta$ , to one decimal place.

$$\sec \theta = 1.65$$