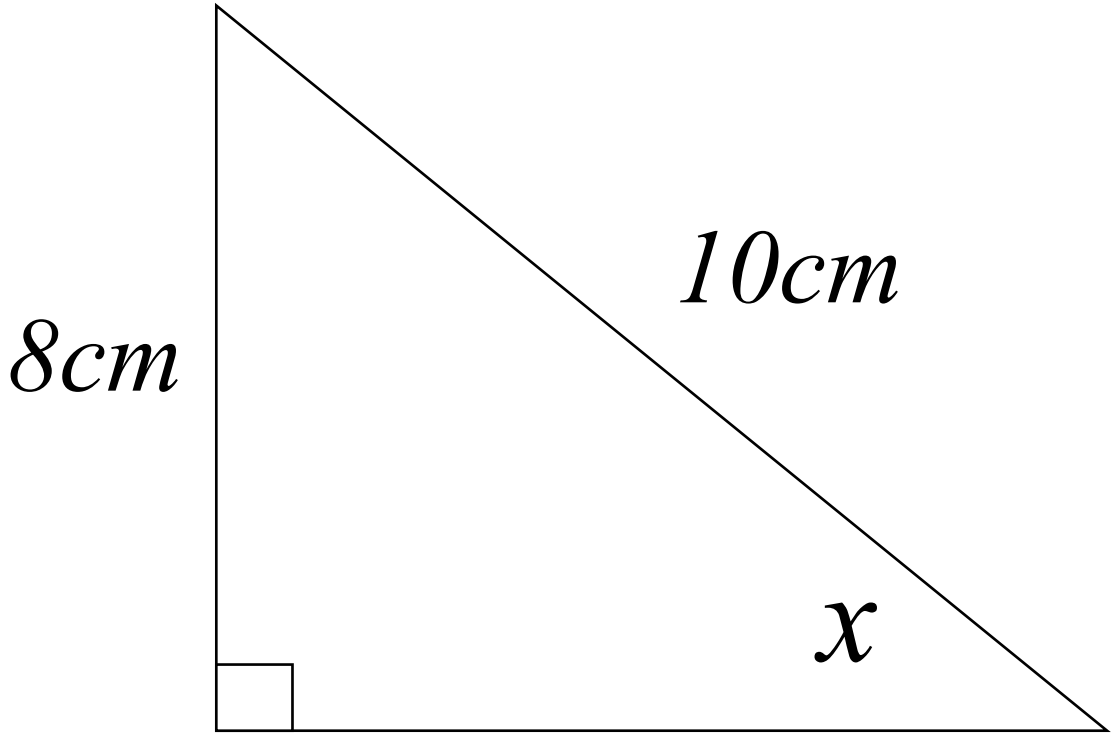
SINE PROBLEM #1



How to solve:

$$\sin(x) = \frac{opp}{hyp}$$

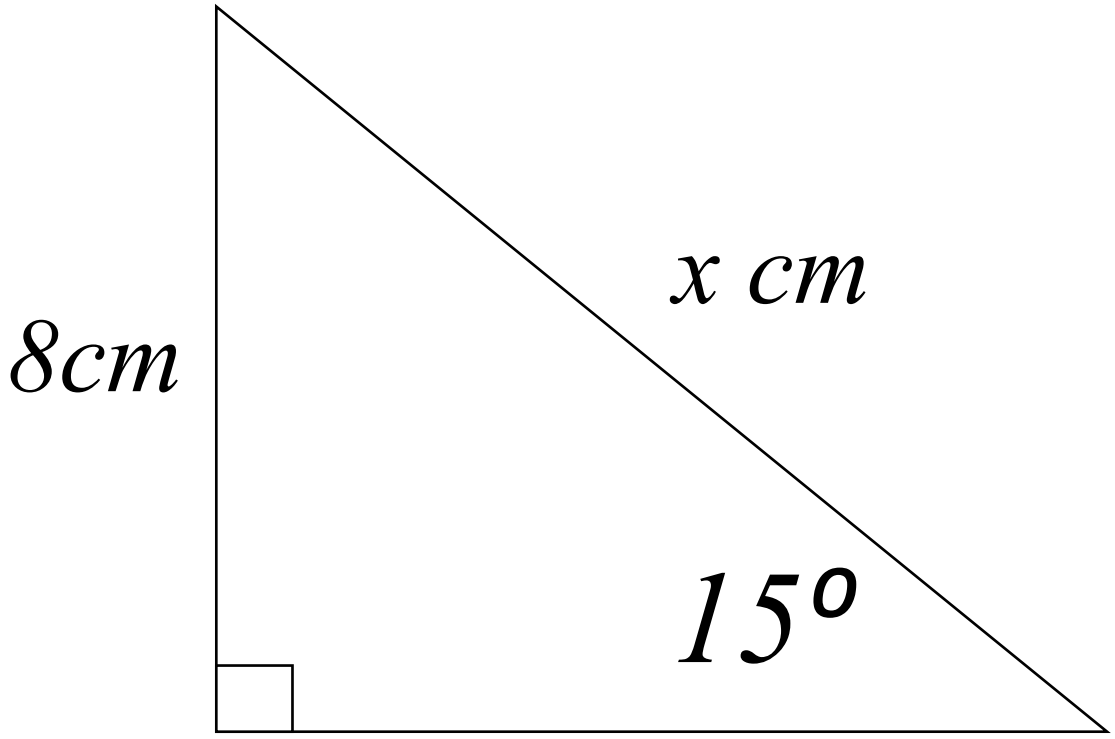
$$\sin(x) = \frac{8cm}{10cm}$$

$$x = \sin^{-1}\left(\frac{8cm}{10cm}\right)$$

$$x = 53.13^{o}$$

SINE

PROBLEM #2



How to solve:

$$\sin(x) = \frac{opp}{hyp}$$

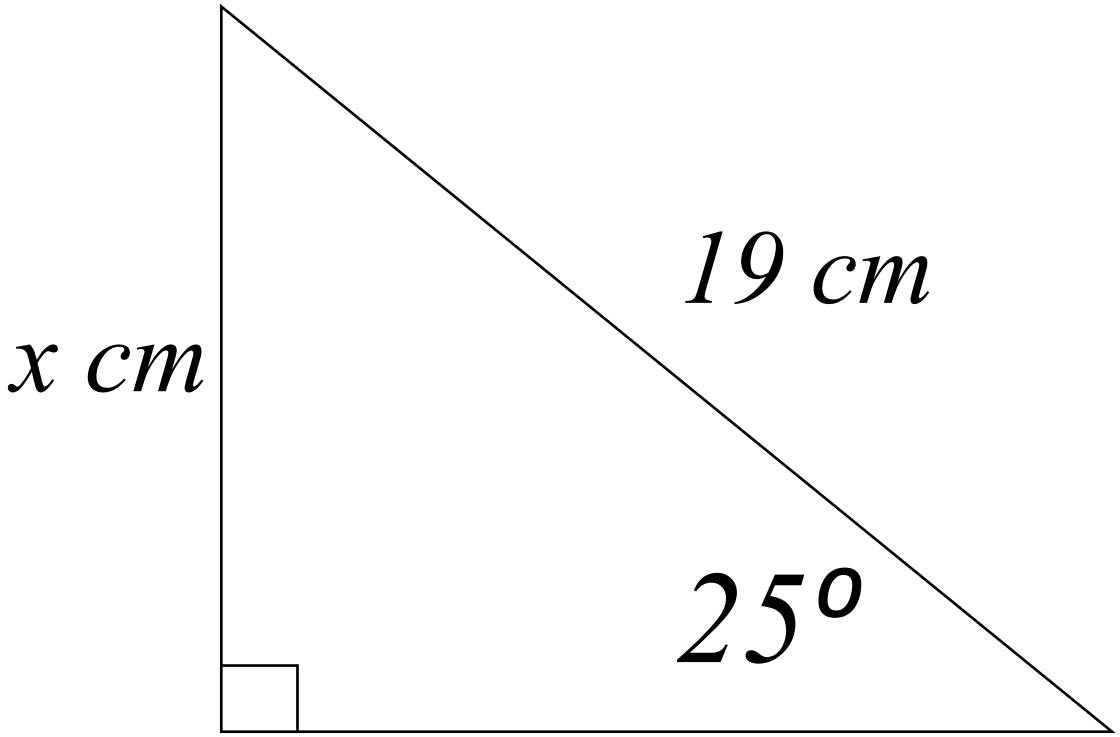
$$\sin(15) = \frac{8cm}{x}$$

$$0.2588 = \frac{8cm}{x}$$

$$x = \frac{8cm}{0.2588}$$

$$x = 30.91cm$$

SINE PROBLEM #3



How to solve:

$$\sin(x) = \frac{opp}{hyp}$$

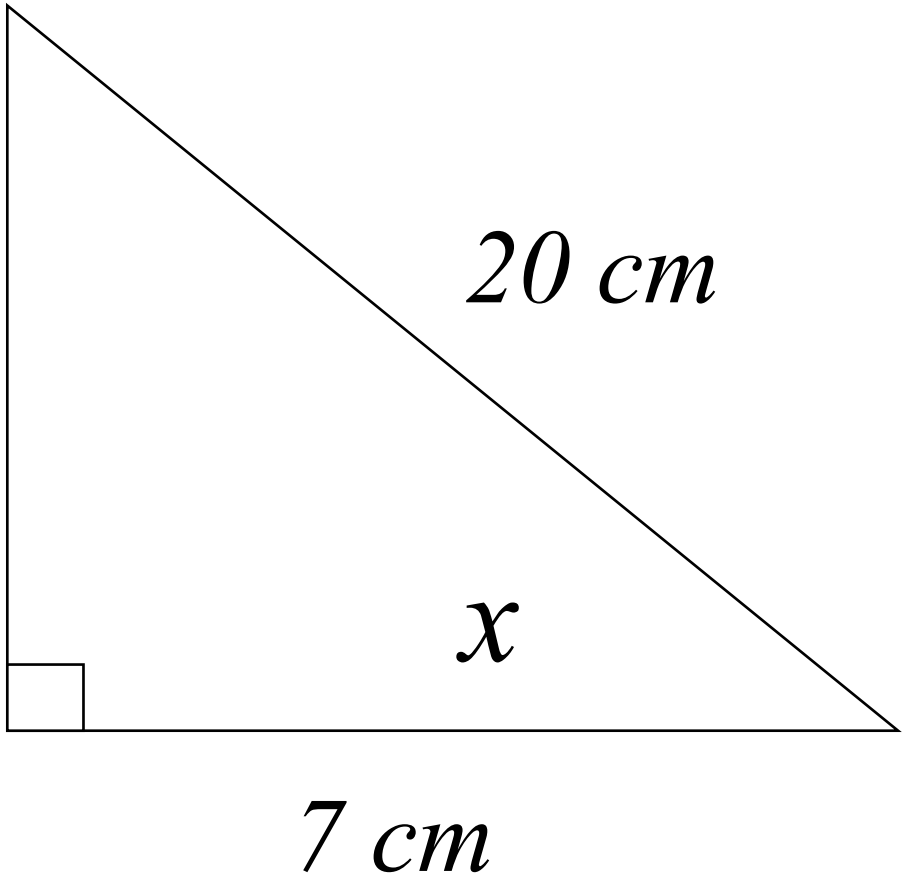
$$\sin(25) = \frac{x}{19cm}$$

$$0.423 = \frac{x}{19cm}$$

$$x = 19cm \times 0.423$$

$$x = 8.03cm$$

COSINE PROBLEM #1



How to solve:

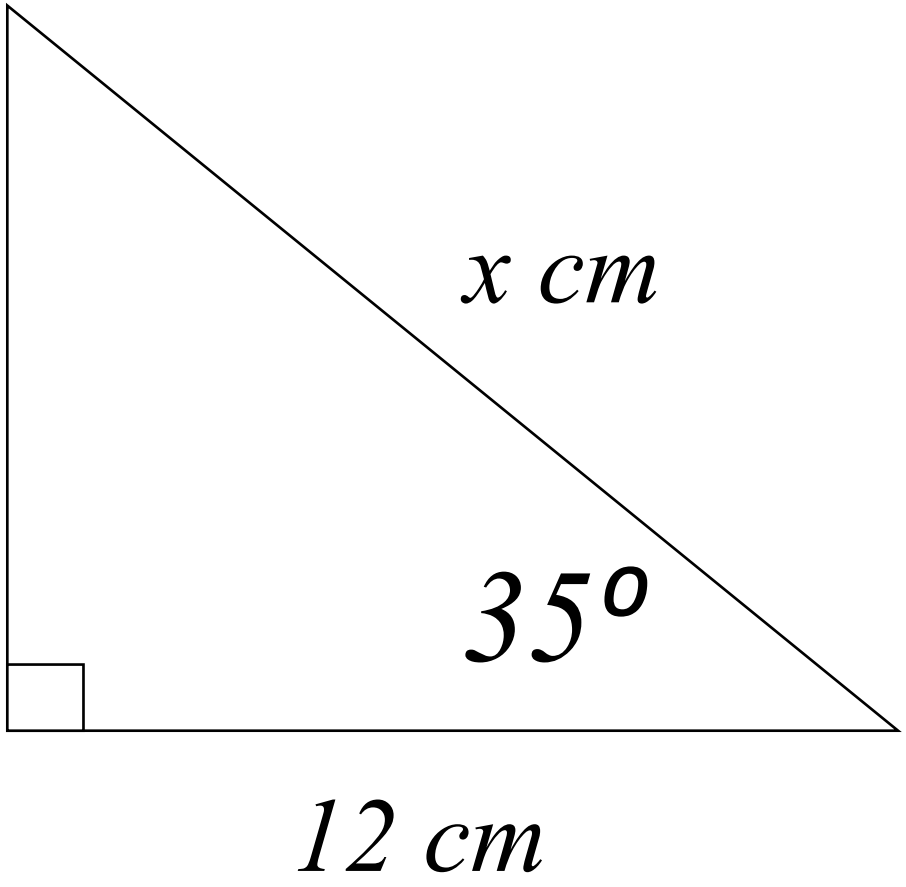
$$\cos x = \frac{adj}{hyp}$$

$$\cos x = \frac{7cm}{20cm}$$

$$x = \cos^{-1}\left(\frac{7cm}{20cm}\right)$$

$$x = 69.51^{o}$$

COSINE PROBLEM #2



How to solve:

$$\cos x = \frac{adj}{hyp}$$

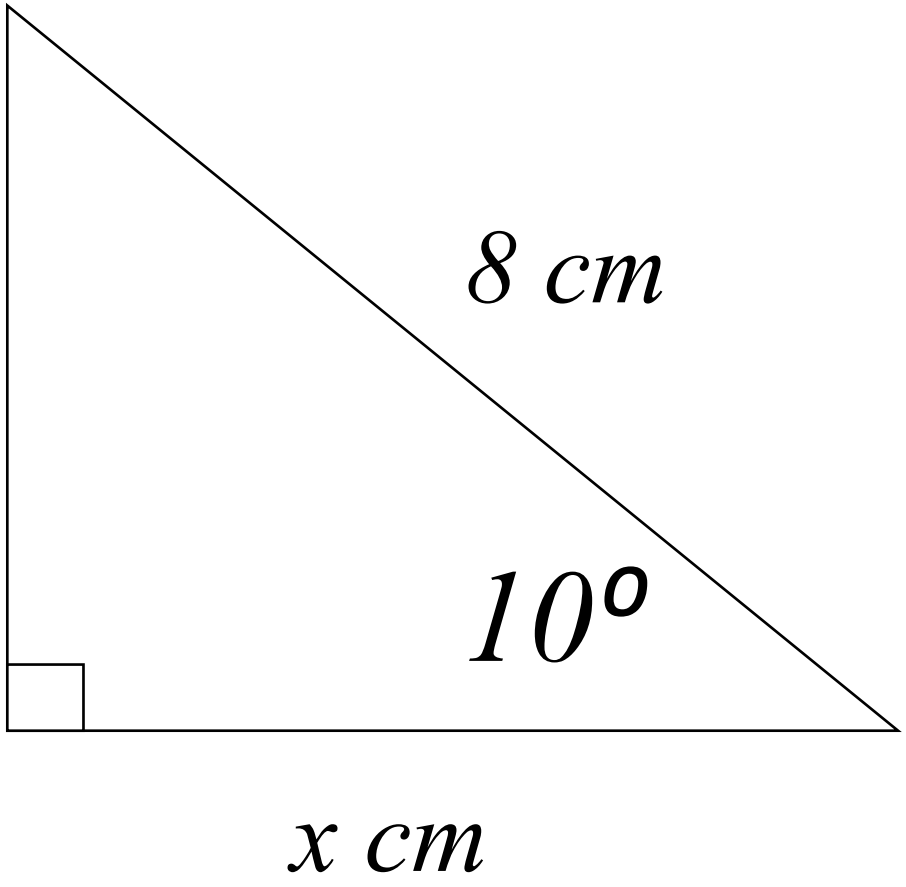
$$\cos(35) = \frac{7cm}{x}$$

$$0.819 = \frac{7cm}{x}$$

$$x = \frac{7cm}{0.819}$$

$$x = 8.55cm$$

COSINE PROBLEM #3



How to solve:

$$\cos x = \frac{adj}{hyp}$$

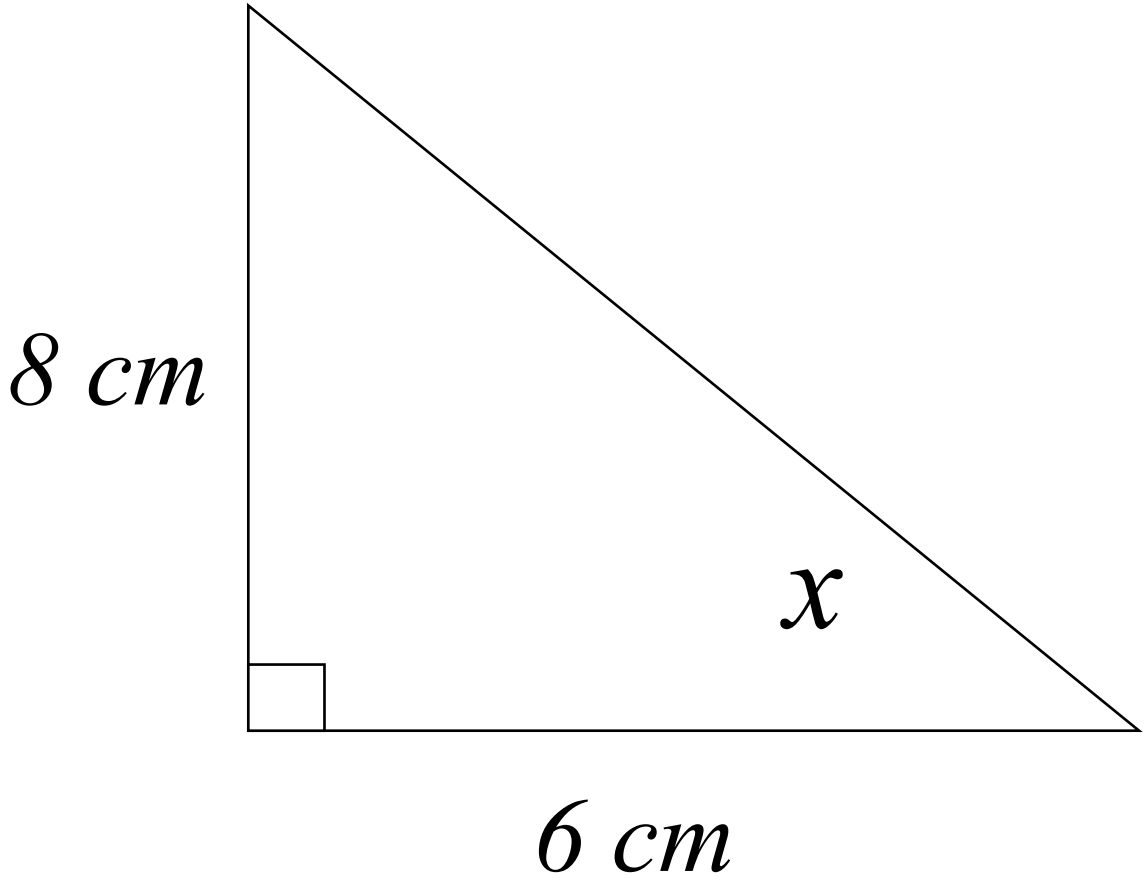
$$\cos(10) = \frac{x}{8cm}$$

$$0.985 = \frac{x}{8cm}$$

$$x = 0.985 \times 8cm$$

$$x = 7.88cm$$

TANGENT Problem #1



How to solve:

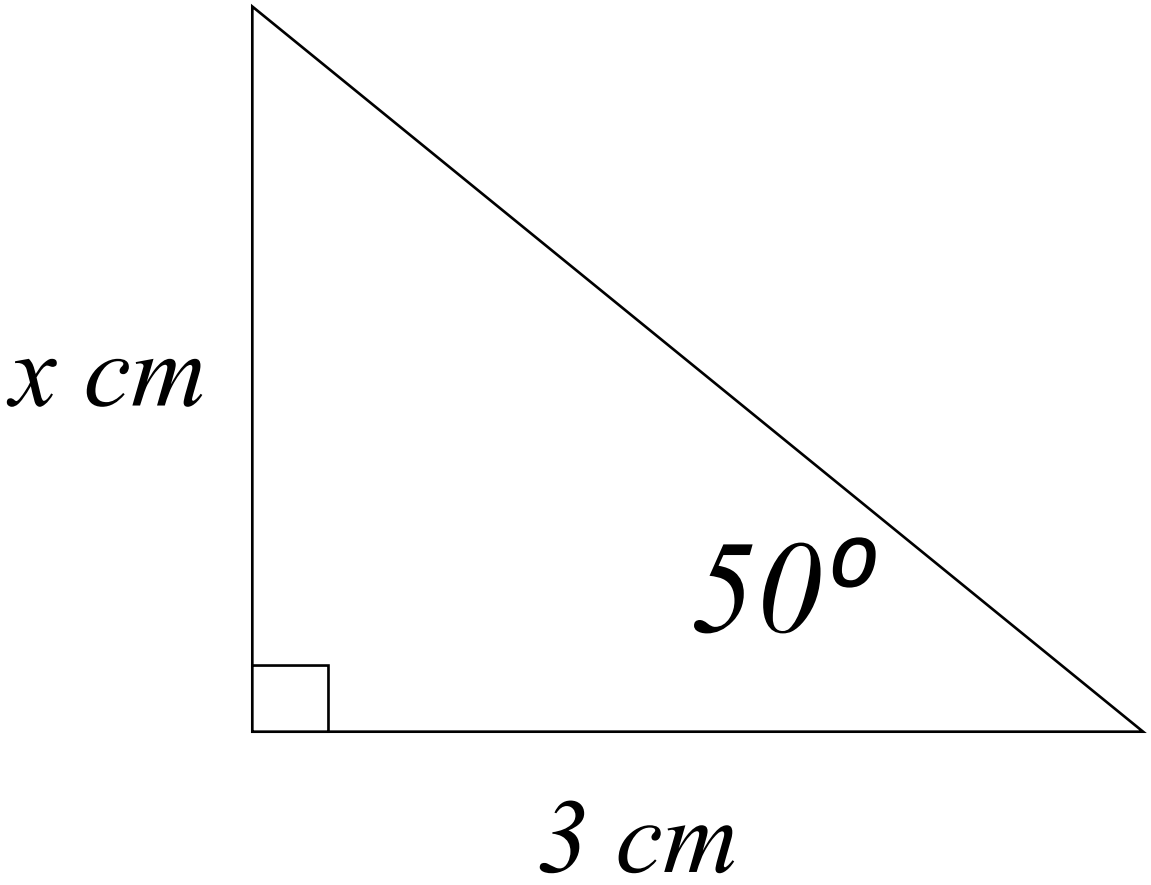
$$\tan x = \frac{opp}{adj}$$

$$\tan x = \frac{8cm}{6cm}$$

$$x = \tan^{-1}\left(\frac{8cm}{6cm}\right)$$

$$x - 53.13^{o}$$

TANGENT Problem #2



How to solve:

$$\tan x = \frac{opp}{adj}$$

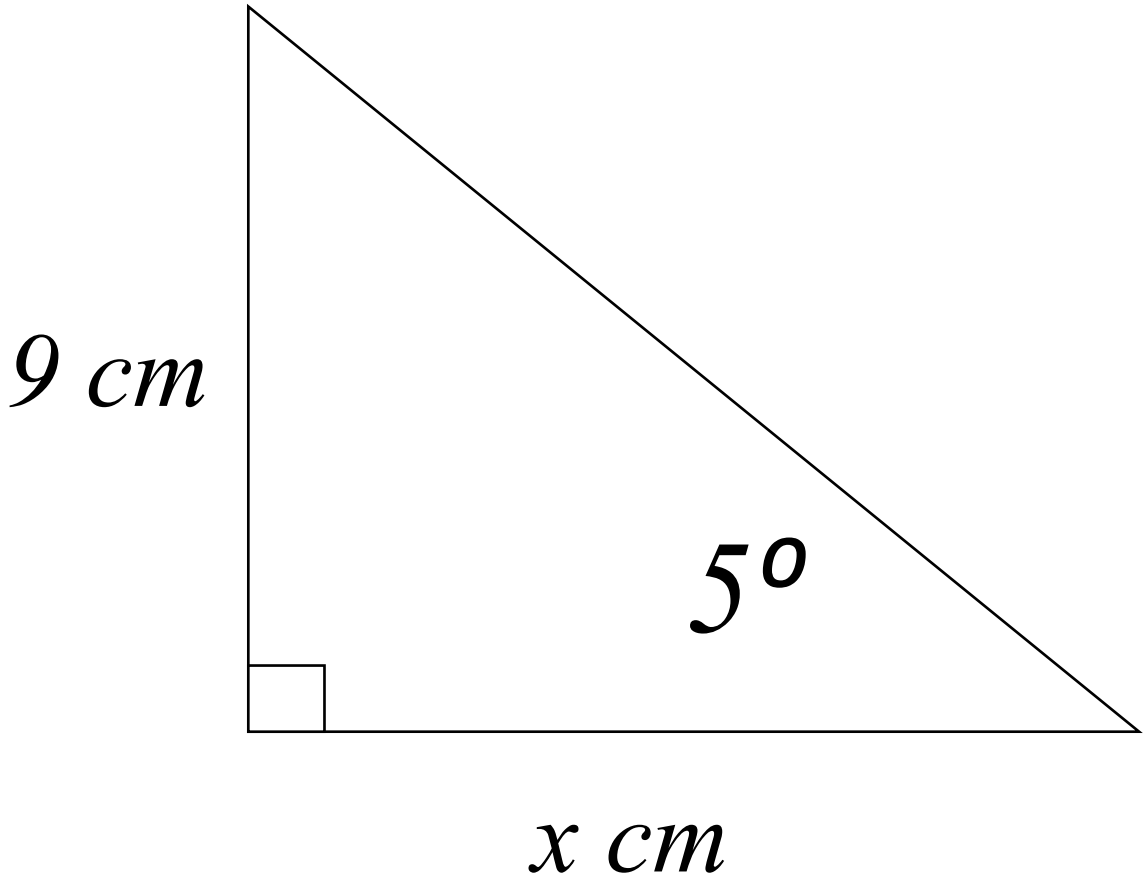
$$\tan(50) = \frac{x}{3cm}$$

$$1.192 = \frac{x}{3cm}$$

$$x = 1.192 \times 3cm$$

$$x = 3.58cm$$

TANGENT Problem #3



How to solve:

$$\tan x = \frac{opp}{adj}$$

$$\tan(5) = \frac{9cm}{x}$$

$$0.874 = \frac{9cm}{x}$$

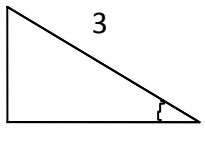
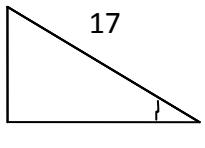
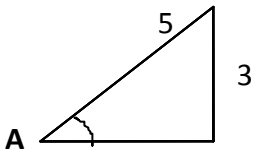
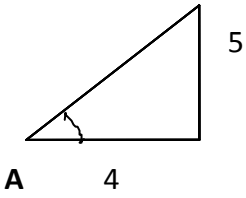
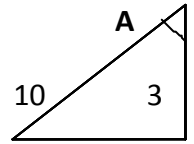
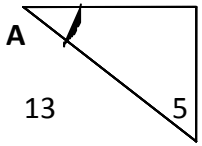
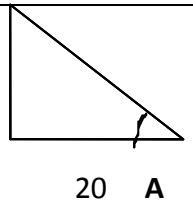
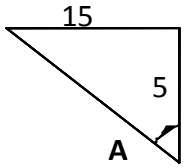
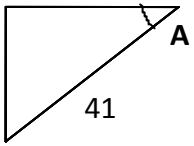
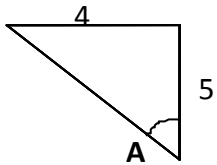
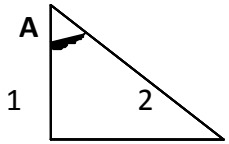
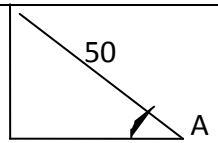
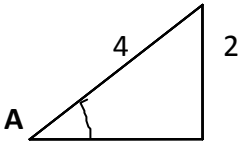
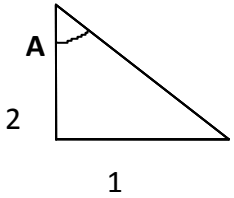
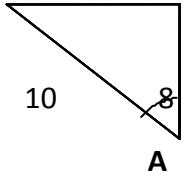
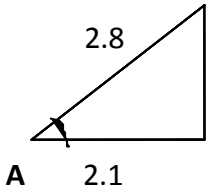
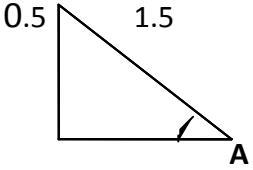
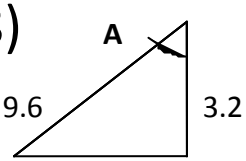
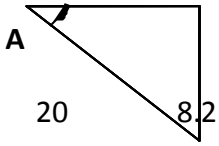
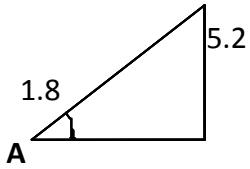
$$x = \frac{9cm}{0.874}$$

$$x = 102.87cm$$

Trig Problem #1 Questions

Topic: Trigonometry 1 - Finding Angles

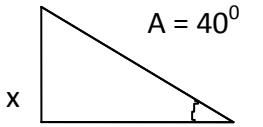
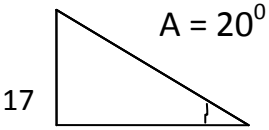
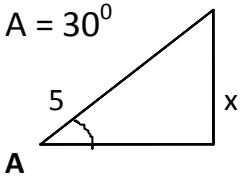
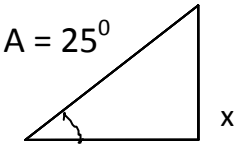
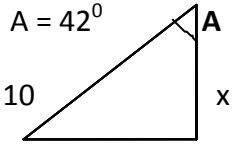
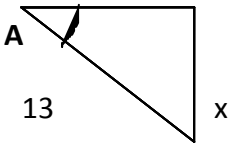
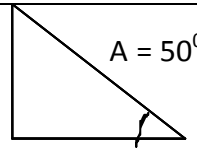
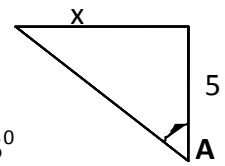
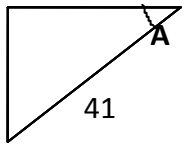
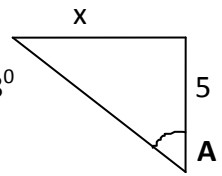
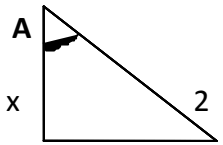
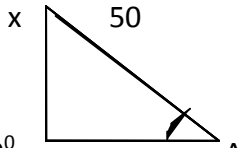
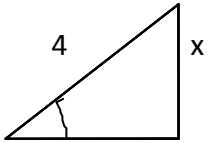
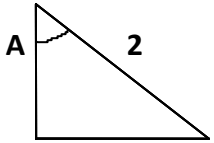
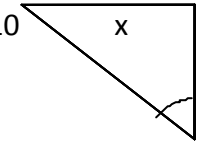
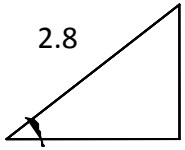
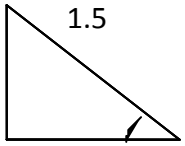
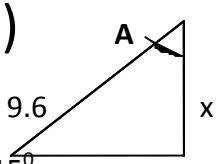
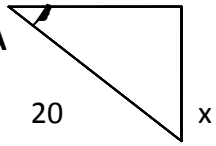
State whether to use INV **Sin**, **Cos** or **Tan**, and then find the angle marked "A".

1) 	2) 	3) 	4) 	5) 
6) 	7) 	8) 	9) 	10) 
11) 	12) 	13) 	14) 	15) 
16) 	17) 	18) 	19) 	20) 

Trig Problem #2 and #3 Questions

Topic: Trigonometry 2 - Finding Sides

Decide whether to use **Sine**, **Cosine** or **Tangent**, and then find the side marked "x".

1) 	2) 	3) 	4) 	5) 
6) 	7) 	8) 	9) 	10) 
11) 	12) 	13) 	14) 	15) 
16) 	17) 	18) 	19) 	20)