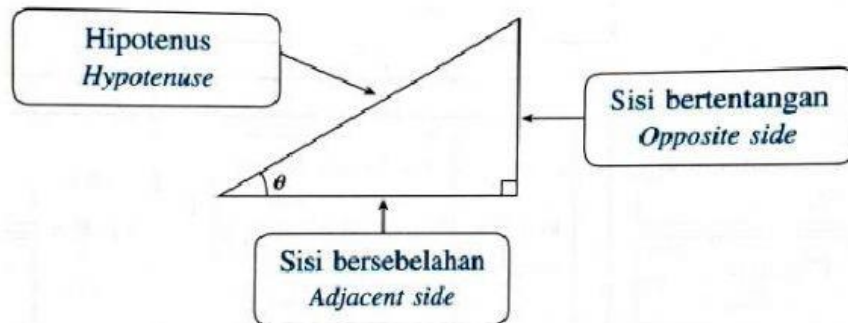


TEACHER'S NAME:

NAME:

CLASS:

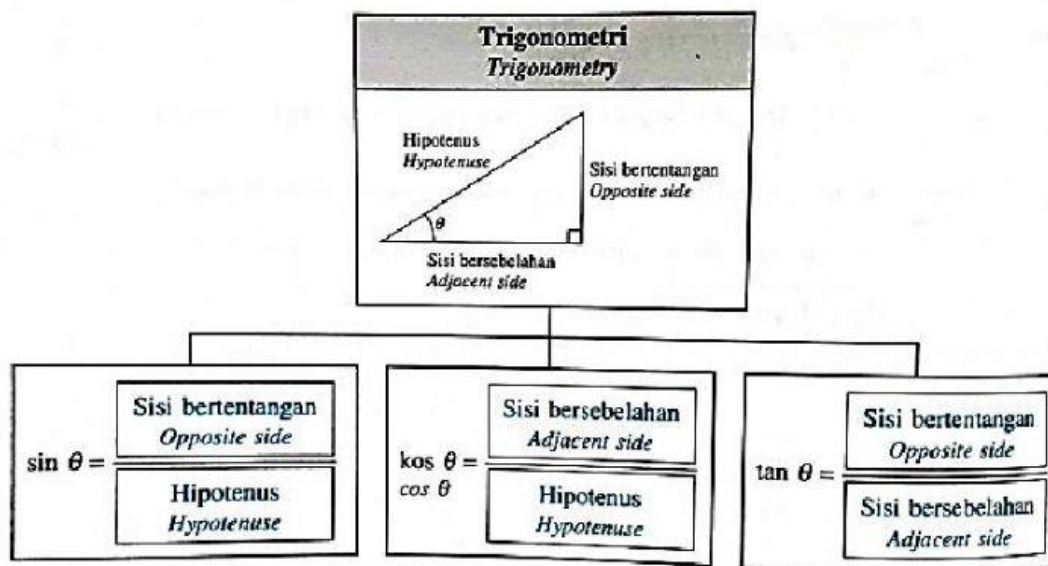
5.1 SINE, COSINE AND TANGENT OF ACUTE ANGLE IN RIGHT-ANGLED TRIANGLES



1. For each of the following right-angled triangles, identify the hypotenuse, the opposite side and the adjacent side .

(Write the answers based on letters in diagram)

Triangle	Hypotenuse	Opposite side	Adjacent side

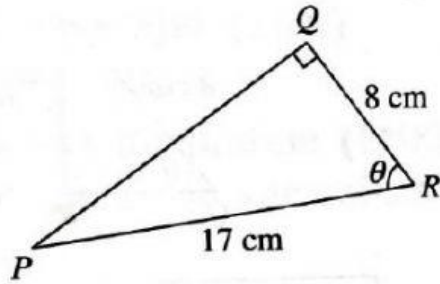


2. Determine $\sin \theta$, $\cos \theta$, and $\tan \theta$ for the following diagram.

[Write answers based on letters in the diagram in ascending alphabets. Example BC/AC]

Diagram	$\sin \theta$	$\cos \theta$	$\tan \theta$

3. Find the value of $\sin \theta$ in the diagram below.



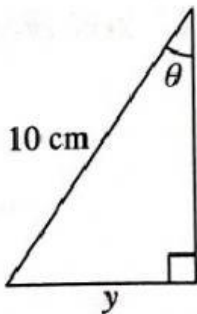
Answer:

$\sin \theta = \dots\dots\dots$

(Write answers in fraction . Example 5/13)

4. Find the value of y for the right-angled triangle below.

Given $\sin \theta = 0.35$.



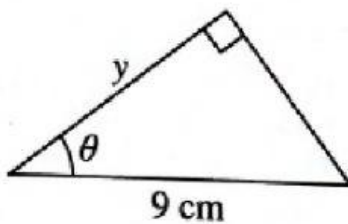
Answer:

$y = \dots\dots\dots \text{ cm}$

(Write answer in 1 decimal places)

5. Find the value of y for the right-angled triangle below

Given $\cos \theta = 0.8$



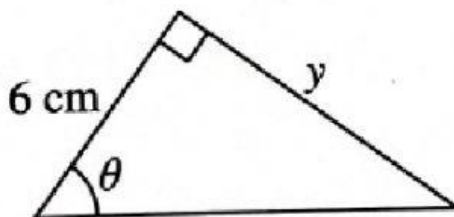
Answer:

$y = \dots\dots\dots \text{ cm}$

(Write answer in 1 decimal places)

6. Find the value of y for the right-angled triangle below

Given $\tan \theta = 1.4$



Answer:

$y = \dots\dots\dots \text{ cm}$

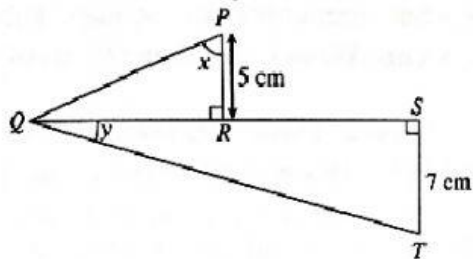
(Write answer in 1 decimal place)

7. Find the value of $3 \tan 45^\circ - 4 \sin 30^\circ$.

8. Find the value $\frac{3 \tan 45^\circ}{\cos 60^\circ} + 2 \sin 30^\circ$.

9. In the diagram below, QRS is a straight line. Given $QR = RS$ and $\cos x = \frac{5}{13}$.

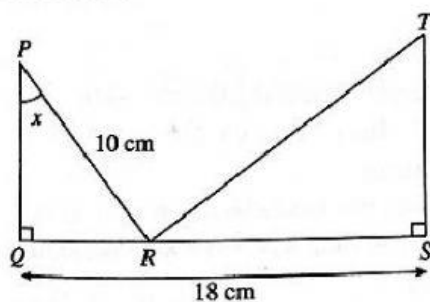
Find the value of y .



(Write in 2 decimal places)

10. In the diagram below, QRS is a straight line. Given $PT = 25$ cm and $\sin x = \frac{3}{5}$.

Find $\tan x$.



(Write the value of $\tan x$ in 2 decimal places)