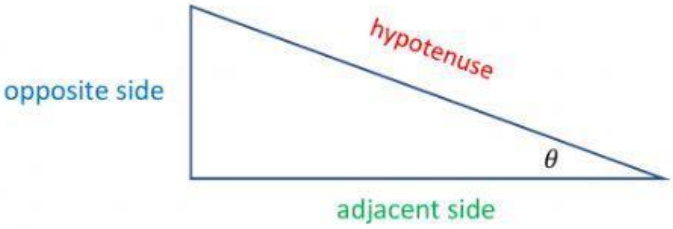
Assumption College Ubonratchathani
English for Math 3

Name:…… Class:…….. No. ……

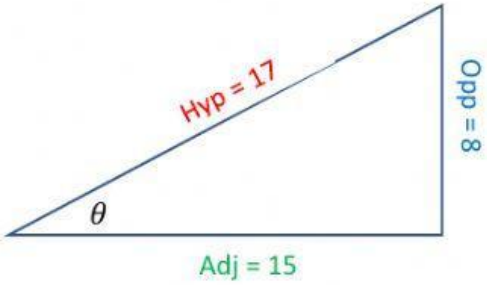
Trigonometric Ratios
(อัตราส่วนตรีโกณมิติ)



SOH – CAH – TOA

1. $\sin\theta = \frac{opp}{hyp}$
2. $\cos\theta = \frac{adj}{hyp}$
3. $\tan\theta = \frac{opp}{adj}$

Example 1: Find the $\sin\theta$, $\cos\theta$ and $\tan\theta$ of the triangle below.



Solution:

$\sin\theta = \frac{opp}{hyp} = \frac{8}{17}$ $\cos\theta = \frac{adj}{hyp} = \frac{15}{17}$ $\tan\theta = \frac{opp}{adj} = \frac{8}{15}$

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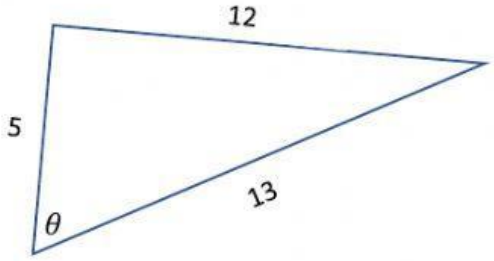
Example 2: Find the sin θ, cos θ and tan θ of the triangle below.

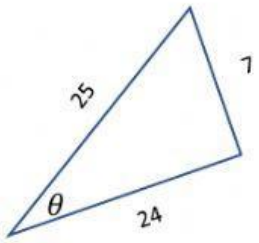


Solution:

$\sin\theta = \frac{opp}{hyp} = \frac{12}{13}$ $\cos\theta = \frac{adj}{hyp} = \frac{5}{13}$ $\tan\theta = \frac{opp}{adj} = \frac{12}{5}$

Find the correct sin θ, cos θ and tan θ of the following triangles:

A.



1. sin θ

a. $\frac{7}{24}$ b. $\frac{7}{25}$ c. $\frac{24}{25}$

2. cos θ

a. $\frac{7}{24}$ b. $\frac{7}{25}$ c. $\frac{24}{25}$

3. tan θ

a. $\frac{7}{24}$ b. $\frac{7}{25}$ c. $\frac{24}{25}$

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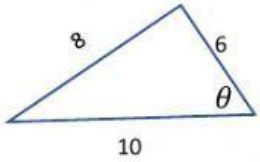
B.



4. $\sin\theta$

a. $\frac{4}{5}$ b. $\frac{3}{5}$ c. $\frac{4}{3}$

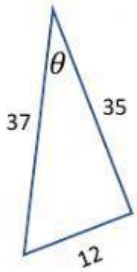
5. $\cos\theta$

a. $\frac{3}{5}$ b. $\frac{4}{3}$ c. $\frac{4}{5}$

6. $\tan\theta$

a. $\frac{4}{5}$ b. $\frac{4}{3}$ c. $\frac{3}{5}$

C.



7. $\sin\theta$

a. $\frac{12}{35}$ b. $\frac{35}{37}$ c. $\frac{12}{37}$

8. $\cos\theta$

a. $\frac{35}{37}$ b. $\frac{12}{35}$ c. $\frac{12}{37}$

9. $\tan\theta$

a. $\frac{12}{37}$ b. $\frac{12}{35}$ c. $\frac{35}{37}$

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