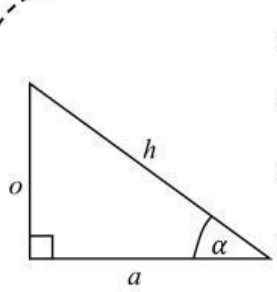
Menentukan nilai sinus dan cosinus dari sebuah segitiga siku-siku yang sudutnya diketahui



$\sin\alpha = \frac{o}{h}$

$\cos\alpha = \frac{a}{h}$

$\tan\alpha = \frac{o}{a}$

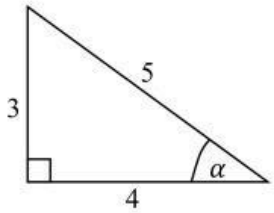
$\sec\text{an}\,\alpha = \frac{h}{a}$

$\text{cosec}\,\alpha = \frac{h}{o}$

$\text{cotan}\,\alpha = \frac{a}{o}$

Contoh:

Tentukan nilai **sinus, cosinus, dan tangen** dari segitiga siku-siku berikut!



Penyelesaian:

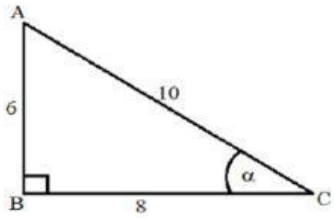
$\sin\alpha = \frac{3}{5}$, $\cos\alpha = \frac{4}{5}$, $\tan\alpha = \frac{3}{4}$

$\text{cosec}\ \alpha = \frac{5}{3}$, $\sec\text{an}\,\alpha = \frac{5}{4}$, $\text{cotan}\,\alpha = \frac{4}{3}$

Latihan!

Carilah nilai **sinus, cosinus, tangen, secan, cosec dan cotan** dari segitiga berikut ini!

1)



$\sin\alpha = \frac{\ldots}{\ldots}$

$\cos\alpha = \frac{\ldots}{\ldots}$

$\tan\alpha = \frac{\ldots}{\ldots}$

$\sec\text{an}\,\alpha = \frac{\ldots}{\ldots}$

$\text{cosec}\,\alpha = \frac{\ldots}{\ldots}$

$\text{cotan}\,\alpha = \frac{\ldots}{\ldots}$

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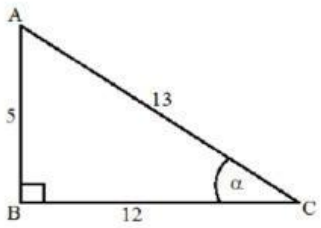
2)



$\sin\alpha = \frac{\dots}{\dots}$

$\cos\alpha = \frac{\dots}{\dots}$

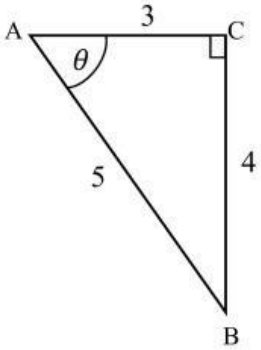
$\tan\alpha = \frac{\dots}{\dots}$

$\text{secan}\,\alpha = \frac{\dots}{\dots}$

$\text{cosec}\,\alpha = \frac{\dots}{\dots}$

$\text{cotan}\,\alpha = \frac{\dots}{\dots}$

3)



$\sin\alpha = \frac{\dots}{\dots}$

$\cos\alpha = \frac{\dots}{\dots}$

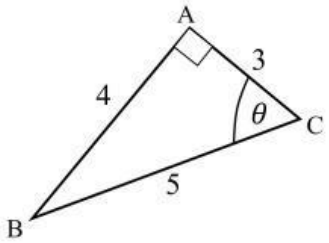
$\tan\alpha = \frac{\dots}{\dots}$

$\text{secan}\,\alpha = \frac{\dots}{\dots}$

$\text{cosec}\,\alpha = \frac{\dots}{\dots}$

$\text{cotan}\,\alpha = \frac{\dots}{\dots}$

4)



$\sin\alpha = \frac{\dots}{\dots}$

$\cos\alpha = \frac{\dots}{\dots}$

$\tan\alpha = \frac{\dots}{\dots}$

$\text{secan}\,\alpha = \frac{\dots}{\dots}$

$\text{cosec}\,\alpha = \frac{\dots}{\dots}$

$\text{cotan}\,\alpha = \frac{\dots}{\dots}$

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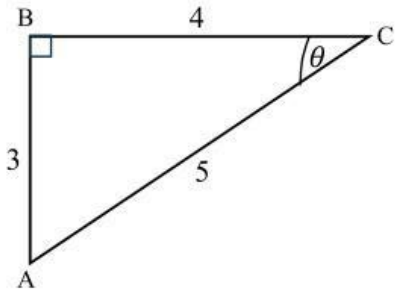
5)



$\sin\alpha = \frac{\dots}{\dots}$

$\cos\alpha = \frac{\dots}{\dots}$

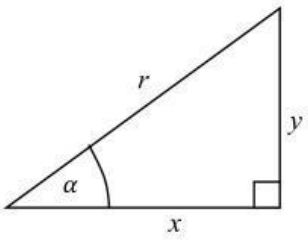
$\tan\alpha = \frac{\dots}{\dots}$

$\text{secan}\,\alpha = \frac{\dots}{\dots}$

$\text{cosec}\,\alpha = \frac{\dots}{\dots}$

$\text{cotan}\,\alpha = \frac{\dots}{\dots}$

6.



$\sin\alpha = \frac{\dots}{\dots}$

$\cos\alpha = \frac{\dots}{\dots}$

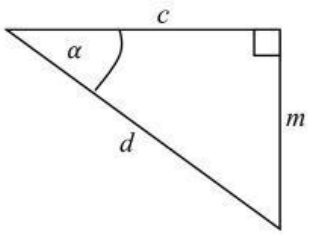
$\tan\alpha = \frac{\dots}{\dots}$

$\text{secan}\,\alpha = \frac{\dots}{\dots}$

$\text{cosec}\,\alpha = \frac{\dots}{\dots}$

$\text{cotan}\,\alpha = \frac{\dots}{\dots}$

7.



$\sin\alpha = \frac{\dots}{\dots}$

$\cos\alpha = \frac{\dots}{\dots}$

$\tan\alpha = \frac{\dots}{\dots}$

$\text{secan}\,\alpha = \frac{\dots}{\dots}$

$\text{cosec}\,\alpha = \frac{\dots}{\dots}$

$\text{cotan}\,\alpha = \frac{\dots}{\dots}$

LIVEWORKSHEETS