LEMBAR KERJA PESERTA DIDIK

Materi : Turunan Fungsi Trigonometri Nama :

Kelas : XII Kelas :

Masih Ingatkah ?

Fungsi	Turunan
$f(x) = \sin x$	$f'(x) =$ ...
$f(x) = \cos x$	$f'(x) =$ ...

Mari Mencoba !

Dengan menggunakan sifat-sifat turunan, buktikan rumus berikut :

1. Jika $y = f(x) = \tan x$, maka $y' = f'(x) = \text{cosec}^2 x$
2. Jika $y = f(x) = \sec x$, maka $y' = f'(x) = \sec x \tan x$

Fungsi	Turunan
$y = f(x) = \tan x$ $y = f(x) = \frac{\sin x}{\square}$	Ingat...! $y' = \frac{u'v - uv'}{v^2}$ $u = \sin x \quad \rightarrow \quad u' = \square$ $v = \square \quad \rightarrow \quad v' = -\sin x$ $y' = \frac{(\square)\cos x - (\square)(-\sin x)}{(\square)^2}$ $y' = \frac{\square - \square}{(\square)^{\square}}$ $y' = \frac{\square}{(\square)^{\square}} = \square$

LIVEWORKSHEETS

Fungsi	Turunan
$y = f(x) = \sec x$ $y = f(x) = \frac{1}{\square}$	Ingat...! $y' = \frac{u'v - uv'}{v^2}$ $u = 1 \quad \rightarrow \quad u' = \square$ $v = \square \quad \rightarrow \quad v' = -\sin x$ $y' = \frac{(\square)\cos x - (\square)(-\sin x)}{(\square)^2}$ $y' = \frac{\square - \square}{(\square)^{\square}}$ $y' = \frac{\square}{(\square)^{\square}}$ $y' = \frac{1}{\square} \cdot \frac{\square}{\cos x}$ $y' = \square \ \square$

LIVEWORKSHEETS