

LKPD LIMIT FUNGSI TRIGONOMETRI

Tujuan Pembelajaran : Menentukan hasil limit fungsi trigonometri dengan substitusi dan pemfaktoran

Nama

Kelas

Petunjuk Pengerjaan

Isilah titik-titik di bawah ini dengan jawaban yang tepat!

$$\lim_{x \rightarrow 0} \frac{6x}{2\sin x} = \frac{\dots}{\dots} \lim_{x \rightarrow 0} \frac{x}{\sin x} = \dots$$

$$\lim_{x \rightarrow 0} \frac{16\tan x}{4\sin x} = \frac{\dots}{\dots} \lim_{x \rightarrow 0} \frac{\tan x}{\sin x} = \dots$$

$$\lim_{x \rightarrow 0} \frac{\tan x}{x^2 + 4x} = \lim_{x \rightarrow 0} \frac{\tan x}{\dots (\dots + \dots)} =$$

$$\lim_{x \rightarrow 0} \frac{\tan x}{x} \frac{1}{(\dots + \dots)} =$$

$$\lim_{x \rightarrow 0} \frac{\tan x}{x} \lim_{x \rightarrow 0} \frac{1}{(\dots + \dots)} = \dots \left(\frac{\dots}{\dots} \right) = \frac{\dots}{\dots}$$

$$\lim_{x \rightarrow 0} \frac{4 - 4\cos x}{2x} = \lim_{x \rightarrow 0} \frac{\dots (\dots - \cos x)}{\dots x} =$$

$$\lim_{x \rightarrow 0} \dots \frac{(\dots - \cos x)}{x} \times \frac{(1 + \cos x)}{(1 + \cos x)} =$$

$$\lim_{x \rightarrow 0} \dots \frac{1 - \cos^2 x}{x(\dots + \cos x)} =$$

$$\lim_{x \rightarrow 0} \dots \frac{\sin^2 x}{x(\dots + \cos x)} =$$

$$\lim_{x \rightarrow 0} \dots \frac{\sin^2 x}{x} \frac{1}{(\dots + \cos x)} =$$

$$\lim_{x \rightarrow 0} \dots \lim_{x \rightarrow 0} \frac{\sin x}{x} \lim_{x \rightarrow 0} \frac{\sin x}{(\dots + \cos x)} =$$

$$(\dots)(\dots) \left(\frac{\dots}{\dots} \right) = \dots$$

SELAMAT MENGERJAKAN