

LIMIT FUNGSI ALJABAR

Nama Anggota Kelompok

1. Nilai $\lim_{x \rightarrow 1} \frac{x - 2}{x + 3} = \dots$

Penyelesaian:

$$\lim_{x \rightarrow 1} \frac{x - 2}{x + 3}$$

Substitusi $x =$

$$= \frac{-2}{+3} = \frac{\square}{\square}$$

2. Nilai $\lim_{x \rightarrow 2} (2x^3 + 5x^2 + 2x + 1) = \dots$

Penyelesaian:

Substitusi $x =$

$$= (2 \cdot \quad^3 + 5 \cdot \quad^2 + 2 \cdot \quad + 1)$$

$$= (2 \cdot \quad + 5 \cdot \quad + \quad + 1)$$

$=$

3. Nilai $\lim_{x \rightarrow 9} \frac{\sqrt{x} - 3}{x - 9} = \dots$

Lakukan tes limit dengan substitusib $x =$

$$= \frac{\sqrt{\square} - 3}{-9} = \frac{-3}{\square} = \frac{\square}{\square}$$

Gunakan metode kali faktor sekawan

$$= \lim_{x \rightarrow 9} \frac{\sqrt{x} - 3}{x - 9} \times \frac{\sqrt{x}}{\sqrt{x}} \frac{3}{3}$$

$$= \lim_{x \rightarrow 9} \frac{\sqrt{x} - 3}{(x - 9)(\sqrt{x} - 3)}$$

$$= \lim_{x \rightarrow 9} \frac{\square}{(\sqrt{x} - 3)}$$

Substitusi $x =$

Jadi, nilai $\lim_{x \rightarrow 9} \frac{\sqrt{x} - 3}{x - 9} =$

4. Nilai $\lim_{x \rightarrow 2} \frac{x^2 - 5x + 6}{x^2 + 2x - 8} = \dots$

Penyelesaian:

$$\lim_{x \rightarrow 2} \frac{x^2 - 5x + 6}{x^2 + 2x - 8} = \lim_{x \rightarrow 2} \frac{(x \quad)(x \quad)}{(x \quad)(x \quad)}$$

$$= \lim_{x \rightarrow 2} \frac{(x \quad)}{(x \quad)}$$

$$= \frac{\square}{\square}$$

Jadi, nilai $\lim_{x \rightarrow 2} \frac{x^2 - 5x + 6}{x^2 + 2x - 8}$ adalah

5. Nilai $\lim_{x \rightarrow 4} 5(3x^2 + 2) = \dots$

Penyelesaian:

$$\lim_{x \rightarrow 4} 5(3x^2 + 2) = 5(3 \cdot 4^2 + 2)$$

$$= 5(3 \cdot 16 + 2)$$

$$= 5(48 + 2) =$$

Jadi, nilai $\lim_{x \rightarrow 4} 5(3x^2 + 2)$ adalah