

LIMIT FUNGSI

SOAL LATIHAN W1002a

B. Teorema Limit

01. $\lim_{x \rightarrow \infty} \frac{\sqrt{2x^2 + 2x - 3} - \sqrt{2x^2 - 2x - 3}}{2} = \dots$
- A. 0
B. $\sqrt{2}$
C. $\frac{1}{2}$
D. $2\sqrt{2}$
E. $\frac{1}{2}\sqrt{2}$
02. $\lim_{x \rightarrow \infty} \left[\frac{3x^2 - x}{3 - x^2} \right] \left[\frac{1 + 8x^3}{2x^3 - 3x} \right]^{1/2} = \dots$
- A. -12
B. -6
C. 6
D. 8
E. 12
03. Misalkan $\lim_{x \rightarrow c} f(x) = 2$ dan $\lim_{x \rightarrow c} g(x) = -1$ maka $\lim_{x \rightarrow c} [3f(x) - g(x)][4f(x) + 2g(x)] =$
- A. 42
B. 36
C. 24
D. 10
E. 10
04. Nilai $\lim_{x \rightarrow -2} \left[\frac{4}{4 - x^2} \right] - \lim_{x \rightarrow -2} \left[\frac{1}{2 + x} \right] = \dots$
- A. $-1/2$
B. $-1/4$
C. $1/16$
D. $1/4$
E. $1/2$