

# limit

selesaikan soal berikut ini:

$$\begin{aligned} 1. \lim_{x=2} \frac{3x+6}{x+2} &= \frac{3\Box + 6}{\Box + 2} \\ &= \frac{\Box}{\Box} \\ &= \Box \end{aligned}$$

$$\begin{aligned} 2. \lim_{x=3} \frac{x^2 - 2x - 3}{x^2 - 9} &= \lim_{x=3} \frac{(\Box - \Box)(\Box + \Box)}{(\Box - \Box)(\Box + \Box)} \\ &= \lim_{x=3} \frac{x + \Box}{x + \Box} \\ &= \frac{\Box}{\Box} \end{aligned}$$

$$\begin{aligned} 3. \lim_{x=3} \frac{x-9}{\sqrt{x}-3} &= \frac{x-9}{(\sqrt{x}-3)} \frac{\sqrt{x} + \Box}{\sqrt{x} + \Box} \\ &= \frac{x-9}{x-\Box} \frac{\sqrt{x} + 3}{\sqrt{x} + 3} \\ &= \sqrt{x} + 3 \\ &= \sqrt{\Box} + \Box \\ &= \sqrt{9} \\ &= \Box \end{aligned}$$

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