

4. $\lim_{x \rightarrow 3} \frac{\sin(2x-6)}{\sqrt{4-x}-1} = \dots$
- (A) 4
 - (B) 2
 - (C) 0
 - (D) -2
 - (E) -4

Solusi: [E]

$$\lim_{x \rightarrow 3} \frac{\sin(2x-6)}{\sqrt{4-x}-1} = \lim_{x \rightarrow 3} \frac{2 \cos(2x-6)}{\frac{-1}{2\sqrt{4-x}}} = \frac{2 \cos(2 \cdot 3 - 6)}{\frac{-1}{2\sqrt{4-3}}} = \frac{2 \cdot 1}{\frac{-1}{2}} = -4$$