LKPD
LIMIT FUNGSI ALJABAR
MATEMATIKA WAJIB XI MIPA

NAMA: .....
KELAS: .....

LENGKAPILAH TITIK-TITIK DIBAWAH INI!

1 $\lim\limits_{x\to -5} \dfrac{x-5}{x^2+6x+5} = \dfrac{\dots.-\dots.}{\dots.+\dots.+\dots.} = \dfrac{\dots.}{\dots.}$

2 $\lim\limits_{x\to 2} \dfrac{x^2+2x-8}{x^2-4} = \dfrac{\dots+\dots-\dots.}{\dots.-\dots} = \dfrac{\dots.}{\dots.}$

$$\lim_{x\to 2} \frac{x^2+2x-8}{x^2-4} = \lim_{x\to 2} \frac{(\dots\dots.)(\dots\dots.)}{(\dots\dots.)(\dots\dots.)} = \lim_{x\to 2} \frac{(\dots\dots.)}{(\dots\dots.)} = \frac{\dots\dots\dots..}{\dots\dots\dots..} = \frac{\dots.}{\dots.}$$

3 $\lim\limits_{x\to 4} \dfrac{3-\sqrt{x^2-7}}{x^2-2x-8} = \dfrac{\dots..-\dots..}{\dots.-\dots.-\dots.} = \dfrac{\dots.}{\dots.}$

$$\lim_{x\to 4} \frac{3-\sqrt{x^2-7}}{x^2-2x-8}$$

$$= \lim_{x\to 4} \frac{3-\sqrt{x^2-7}}{x^2-2x-8} \times \frac{\dots..+\sqrt{x^2-7}}{\dots\dots+\sqrt{x^2-7}} = \lim_{x\to 4} \frac{3^2-\left(\sqrt{x^2-7}\right)^2}{(x^2-2x-8)(3+\sqrt{x^2-7})}$$

$$= \lim_{x\to 4} \frac{-(x^2-\cdots..)}{(x^2-2x-8)(3+\sqrt{x^2-7})}$$

$$= \lim_{x\to 4} \frac{-(x-\cdots.)(x+\cdots\dots)}{(x-\cdots\dots)(x+2)(3+\sqrt{x^2-7})}$$

$$= \lim_{x\to 4} \frac{-(x+4)}{(x+2)(3+\sqrt{x^2-7})} = \frac{-(\dots..+\cdots..)}{(\dots..+2)(3+\sqrt{\dots..-7})} = \frac{\dots.}{\dots.}$$

LIVEWORKSHEETS