

LIMIT DITAKBERHINGGAAN

Nama : _____ KELAS : _____

Hitunglah nilai limit-limit trigonometri berikut!

1	$\lim_{x \rightarrow \infty} \frac{x+10}{3x-4} = \dots$	7	$\lim_{x \rightarrow \infty} \frac{3x^2-4x+5}{x-10} = \dots$	13	$\lim_{x \rightarrow \infty} \frac{2x^3-6x^2}{-x^3} = \dots$
2	$\lim_{x \rightarrow \infty} \frac{6x-5}{3x+10} = \dots$	8	$\lim_{x \rightarrow \infty} \frac{(x-2)^2}{(2x+1)^2} = \dots$	14	$\lim_{x \rightarrow \infty} \frac{(2x-3)^3}{(x+1)(x^2-3)} = \dots$
3	$\lim_{x \rightarrow \infty} \frac{4x-3}{8x+5} = \dots$	9	$\lim_{x \rightarrow \infty} \frac{(x-7)^2}{(2x-1)} = \dots$	15	$\lim_{x \rightarrow \infty} \frac{(x^2-3)^2}{x^4} = \dots$
4	$\lim_{x \rightarrow \infty} \frac{2x^2+4x-5}{2x^2-8} = \dots$	10	$\lim_{x \rightarrow \infty} \frac{x^3+4x^2-5x+10}{x^2+x-3} = \dots$	16	$\lim_{x \rightarrow \infty} \frac{(x^2-2)(x^3+2)}{(x^5+3)} = \dots$
5	$\lim_{x \rightarrow \infty} \frac{4x^2-6x+1}{x^2+x-5} = \dots$	11	$\lim_{x \rightarrow \infty} \frac{x^2+2x-5}{x^2-3x^2+1} = \dots$	17	$\lim_{x \rightarrow \infty} \frac{x\sqrt{x}+x-1}{\sqrt{x^3-2x+4}} = \dots$
6	$\lim_{x \rightarrow \infty} \frac{x-4}{2x^2-3x+1} = \dots$	12	$\lim_{x \rightarrow \infty} \frac{6x^3+4x^2+7}{3x^3+x} = \dots$	18	$\lim_{x \rightarrow \infty} \frac{(1-2x)^2}{\sqrt{8x^4-1}} = \dots$

Hitunglah limit berikut dengan rumus limit trigonometri!

 **LIVEWORKSHEETS**

1	$\lim_{x \rightarrow \infty} \sqrt{x+3} - \sqrt{x+2} = \dots$	5	$\lim_{x \rightarrow \infty} \sqrt{x^2+4x-2} - (x-1) = \dots$
2	$\lim_{x \rightarrow \infty} \sqrt{3x-4} - \sqrt{2x+1} = \dots$	6	$\lim_{x \rightarrow \infty} (2x-1) - \sqrt{4x^2-8x+7} = \dots$
3	$\lim_{x \rightarrow \infty} \sqrt{x^2-3x+2} - \sqrt{x^2-x+42} = \dots$	7	$\lim_{x \rightarrow \infty} \sqrt{5x^2-4x+5} - \sqrt{x^2-3x+8} = \dots$
4	$\lim_{x \rightarrow \infty} \sqrt{3x^2-4x+8} - \sqrt{3x^2-2x+5} = \dots$	8	$\lim_{x \rightarrow \infty} \sqrt{3x^2-8x+10} - \sqrt{4x^2-4x+3} = \dots$
a. 0 b. 1 c. -1 d. ~ e. -~ f. $\frac{\sqrt{3}}{3}$ g. $-\frac{\sqrt{3}}{3}$			

 **LIVEWORKSHEETS**

