

احسب النهايات التالية :

1	$\lim_{x \rightarrow -2} (x^3 - 6x^2 + 3)$	2	$\lim_{x \rightarrow -\infty} (x^3 - 6x^2 + 3)$	3	$\lim_{x \rightarrow +\infty} (x^3 - 6x^2 + 3)$	4	$\lim_{x \rightarrow -\infty} (x^2 - 3)(x + 2)^3$
5	$\lim_{x \rightarrow -2} \frac{2x+1}{x^2+2}$	6	$\lim_{x \rightarrow -\infty} \frac{2x+1}{x^2+2}$	7	$\lim_{x \rightarrow +\infty} \frac{2x+1}{x^2+2}$	8	$\lim_{x \rightarrow +\infty} \frac{2x^2+1}{x^2+2}$
9	$\lim_{x \rightarrow -\infty} \frac{-x^3+2x+1}{2x^3+1}$	10	$\lim_{x \rightarrow +\infty} \frac{3x^3-8x^2+4}{-2x^5+7}$	11	$\lim_{x \rightarrow -\infty} \frac{2x^6-5x^4+3}{-x^3+2}$	12	$\lim_{x \rightarrow +\infty} \frac{(x^2-2)^2(x^3+3)}{-x^7+7}$
13	$\lim_{x \rightarrow 1} \frac{x^2-1}{x-1}$	14	$\lim_{x \rightarrow -2} \frac{x+2}{x^2-4}$	15	$\lim_{x \rightarrow 3} \frac{\sqrt{x}-3}{x-9}$	16	$\lim_{x \rightarrow 2} \frac{\sqrt{x}-\sqrt{2}}{x-2}$
17	$\lim_{x \rightarrow 1} \frac{x-1}{\sqrt{x}-1}$	18	$\lim_{x \rightarrow 0} \frac{\sqrt{x+1}-1}{x}$	19	$\lim_{x \rightarrow 2} \frac{\sqrt{x+7}-3}{x-2}$	20	$\lim_{x \rightarrow 2} \frac{\sqrt{3x^2+4}-4}{x-2}$
21	$\lim_{x \rightarrow 1} \frac{x-1}{\sqrt{4x^2+5}-3}$	22	$\lim_{x \rightarrow 2} \frac{x^2-5x+6}{x-2}$	23	$\lim_{x \rightarrow 1} \frac{x^3+x^2-2}{x-1}$	24	$\lim_{x \rightarrow 2} \frac{x^2-4}{x^2+2x-8}$
25	$\lim_{x \rightarrow 2} \frac{3x^2-5x-2}{-x^2+7x-10}$	26	$\lim_{x \rightarrow -1} \frac{x^3+5x^2+6x+2}{2x^3-5x^2+7}$	27	$\lim_{x \rightarrow 2} \frac{\sqrt{x+2}-\sqrt{3x-2}}{x^2-9x+14}$	28	$\lim_{x \rightarrow 2} \frac{\sqrt{2x^2+1}-3\sqrt{x+3}}{\sqrt{3x+7}-\sqrt{x+3}}$
29	$\lim_{x \rightarrow 1} \frac{x-3\sqrt{x}+2}{\sqrt{x}-1}$	30	$\lim_{x \rightarrow 1} \frac{x^3+3x-4}{2x^2-2x}$	31	$\lim_{x \rightarrow 2} \frac{3x-4}{ x-2 }$	32	$\lim_{x \rightarrow 2} \frac{x^2-4}{ x-2 }$
33	$\lim_{x \rightarrow 1^+} \frac{2x+3}{x-1}$	34	$\lim_{x \rightarrow 1^-} \frac{2x+3}{x-1}$	35	$\lim_{x \rightarrow -1} \frac{-3-2x}{(x+1)^2}$	36	$\lim_{x \rightarrow 0^-} \frac{3-4x}{x^3}$
37	$\lim_{x \rightarrow 0^-} \frac{-5+3x}{x^2-x}$	38	$\lim_{x \rightarrow 0^+} \frac{-5+3x}{x^2-x}$	39	$\lim_{x \rightarrow 1^-} \frac{-5+3x}{x^2-x}$	40	$\lim_{x \rightarrow 1^+} \frac{-5+3x}{x^2-x}$
41	$\lim_{x \rightarrow 1^+} \frac{x}{x-1} - \frac{x^2}{x^2-1}$	42	$\lim_{x \rightarrow 1^+} \frac{x^3+x}{x^2-1}$	43	$\lim_{x \rightarrow 2^-} \frac{4-2x}{x^2-4x+4}$	44	$\lim_{x \rightarrow 2^-} \frac{x^2+5x-6}{x^3-4x}$
45	$\lim_{x \rightarrow +\infty} \frac{\sin(x)}{x}$	46	$\lim_{x \rightarrow 1} \frac{\sin(\pi x)}{x-1}$	47	$\lim_{x \rightarrow \frac{\pi}{2}} \tan(x)$	48	$\lim_{x \rightarrow \frac{\pi}{2}^+} \tan(x)$
49	$\lim_{x \rightarrow 1} \frac{\sin(x^2-x)}{x-1}$	50	$\lim_{x \rightarrow 3} \frac{\tan(x^2-3x)}{x-3}$	51	$\lim_{x \rightarrow 0} \frac{\sin(\pi x)}{\sin(2x)}$	52	$\lim_{x \rightarrow \frac{\pi}{2}} \frac{\cos(x)}{\cos(2x)}$
53	$\lim_{x \rightarrow \frac{\pi}{4}} \frac{\sin(x)+\cos(x)}{x-\frac{\pi}{4}}$	54	$\lim_{x \rightarrow 0^+} \frac{1-\cos(\sqrt{x})}{\sin(x)}$	55	$\lim_{x \rightarrow 0} \frac{\sin(2x)-2\sin(x)}{x^3}$	56	$\lim_{x \rightarrow 0^-} \frac{\sqrt{1-\cos(x)}}{\tan(x)}$
57	$\lim_{x \rightarrow 0} \frac{\tan(x)-\sin(x)}{x^3}$	58	$\lim_{x \rightarrow 0^+} \frac{\sin(2x)}{\sqrt{1-\cos(x)}}$	59	$\lim_{x \rightarrow \frac{\pi}{6}} \frac{2\sin(x)-1}{6x-\pi}$	60	$\lim_{x \rightarrow 0} \cos\left(\pi \frac{\sin(x)}{x}\right)$