

WHAT DID THE COLLEGE FRESHMAN WHO FAILED HIS FIRST CALCULUS TEST HAVE IN COMMON WITH THE COLLEGE FRESHMAN WHO WAS FINED FOR DRIVING 60 MI/HR IN A 30 MI/HR ZONE?

Match each expression with its limit.

1) $\lim_{x \rightarrow 3} x - 1 =$	2) $\lim_{x \rightarrow 2} \frac{x-2}{x} =$	3) $\lim_{z \rightarrow 1} z^2 + 3z - 2 =$
4) $\lim_{z \rightarrow 2^-} \frac{1}{z-2} =$	5) $\lim_{z \rightarrow 2^+} \frac{1}{z-2} =$	6) $\lim_{z \rightarrow 2} \frac{1}{z-2} =$
7) $\lim_{x \rightarrow 3} \frac{x^2 - 2x - 3}{x-3} =$	8) $\lim_{x \rightarrow -1} \frac{x^2 - 2x - 3}{x-3} =$	9) $\lim_{t \rightarrow 3} t-3 =$
10) $\lim_{x \rightarrow 1} \frac{x^2 - 1}{x-1} =$	11) $\lim_{x \rightarrow -1} \frac{x^2 - 1}{x-1} =$	12) $\lim_{x \rightarrow 1} \frac{x-1}{x^2 - 1} =$
13) $\lim_{x \rightarrow -1} \frac{x-1}{x^2 - 1} =$	14) $\lim_{y \rightarrow 5} \frac{y^2 - 2y - 8}{y-4} =$	15) $\lim_{y \rightarrow 4} \frac{y^2 - 2y - 8}{y-4} =$
16) $\lim_{s \rightarrow \infty} \frac{s}{2s+1} =$	17) $\lim_{s \rightarrow \infty} \frac{2s}{3s+1} =$	18) $\lim_{s \rightarrow \infty} \frac{s^2}{s+1} =$
19) $\lim_{s \rightarrow -\infty} \frac{s^2}{s+1} =$	20) $\lim_{s \rightarrow -\infty} \frac{s^3}{s+1} =$	21) $\lim_{y \rightarrow \infty} \frac{2y^2 + y - 5}{4y^2 + 5y + 2} =$
22) $\lim_{x \rightarrow 1} \frac{1-x}{1-\sqrt{x}} =$	23) $\lim_{x \rightarrow 2} \frac{\frac{1}{x} - \frac{1}{2}}{x-2} =$	24) $\lim_{r \rightarrow 4} \frac{\sqrt{r-3} - 1}{r-4} =$
25) $\lim_{x \rightarrow 0^-} y = \begin{cases} 2x-1, & x \leq 0 \\ 1-2x, & x > 0 \end{cases}$	26) $\lim_{x \rightarrow 0^+} y = \begin{cases} 2x-1, & x \leq 0 \\ 1-2x, & x > 0 \end{cases}$	27) $\lim_{x \rightarrow 0} y = \begin{cases} 2x-1, & x \leq 0 \\ 1-2x, & x > 0 \end{cases}$

Limits.

A. -4	D. 4	E. 0	H. $-\infty$	I. $\frac{1}{2}$	K. 6	L. $-\frac{1}{4}$
M. 7	N. none	R. 1	S. ∞	T. 2	U. $\frac{2}{3}$	W. -1

6	11	24	3	4	2	26

5	22	17	7	8	27	1

15	13	9	25

19	16	20

23	21	14	12	10	18