

2	11	16	26	22	6	18	2	11	11	9
3	18	16	14	6	25	11	22	16	15	9
19	18	17	14	13	3	18	22	12		

- 1 The 3rd derivative of $P(t) = 3t^3 + 3t^2 - t$ when $t = -3$ is
- 2 The slope of the tangent to $y = e^{2x} \tan 4x$ at $x = 0$
- 3 $\lim_{t \rightarrow 0} \frac{1}{t}$, $\lim_{t \rightarrow 5} \frac{t}{t-5}$, $\lim_{t \rightarrow 0^-} \frac{1}{t}$. How many of these limits exist:
- 4 $\lim_{s \rightarrow \infty} \frac{7s-27s^2}{13-3s^2} =$
- 5 The second derivative of $8 \cdot (\sin(x))^3$ at $x = \frac{\pi}{6}$ is
- 6 $\lim_{t \rightarrow 5} \frac{t^3-5t^2+t-5}{t-5} =$
- 7 When $x = 1$, $\frac{d^2}{dx^2} \left\{ \frac{x^2-1}{x} \right\} =$
- 8 $\lim_{s \rightarrow 5} \frac{s^2-25}{s-5} =$
- 9 $f(s) = \frac{1}{2}e^{4 \sin(11s)}$, $f'(0) =$
- 10 $\lim_{x \rightarrow 1} \left[\frac{14}{x-1} - \frac{28}{x^2-1} \right] =$
- 11 $f(x) = \frac{\tan 14x}{1-\sin 7x}$, $f'(0) =$
- 12 The y -intercept of the tangent line to $y = -x^2$ at $x = 4$ is
- 13 The derivative of $\sin(1 - t + t^{24} - t^4)$ at $t = 1$ is
- 14 $5 * \tan(\arccos(\frac{5}{13})) =$
- 15 The domain of $f(x) = \sqrt{22 - 2x}$ is $(-\infty, \text{ })$
- 16 $\frac{d}{dx} \tan x \Big|_{x=\sec^{-1} 5} =$
- 17 The slope of the tangent to $y = \frac{6}{x^{16}+1}$ through $(-1, 3)$ is
- 18 $\lim_{y \rightarrow 0} \frac{\sin 3y}{51y} = \frac{1}{\text{ }}$
- 19 The rate of change of $C = \sqrt{t^3 - 7}$ at $t = 2$ is
- 20 $k(t) = t^3 + t$, $k'(2) =$
- 21 $\lim_{x \rightarrow 1^+} \frac{|5x-5|}{x-1} =$
- 22 $\lim_{y \rightarrow 0} \frac{\sqrt{y+100} - 10}{y} = \frac{1}{\text{ }}$
- 23 $\lim_{t \rightarrow 0} \frac{1}{\cos t}$, $\lim_{t \rightarrow 0^-} \sqrt{1-t}$, $\lim_{t \rightarrow 0} \frac{1}{t^2}$. How many of these limits exist:
- 24 $\lim_{z \rightarrow 20} \frac{z-9}{\sqrt{z}-3} =$
- 25 $10 \frac{1}{2}$ rotations = π radians
- 26 $\frac{d}{dx} x^8 =$ x^7