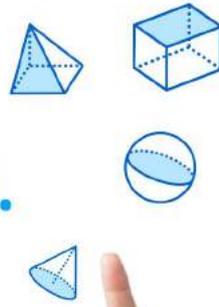


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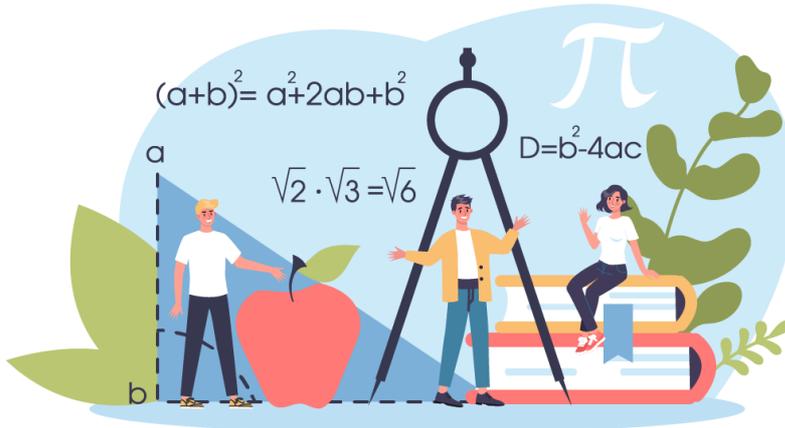
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## CALCULUS WORKSHEETS

1. Find  $\lim_{n \rightarrow 3} \left(1 + \frac{1}{n}\right)^2$
2. Find the value of  $\lim_{x \rightarrow 2} (x - 1)/(x + 1)$
3. Find the differentiation of  $4x^4$ .



4. The equation of a curve is  $y = 2x^2 + 3x + 5$ . Find the slope of this curve at the point  $(1, 2)$ .
5. What is the differential of the expression  $\text{Sin.}(\text{Log.}x)$ ?
6. Find the derivative of  $x \cdot \text{Sin}x$ .
7. What is the derivative of  $\text{Tan}x / \text{Log}x$ ?
8. Find the anti derivative of  $x^7$ .
9. Integrate  $1 / \sqrt{x}$ .
10. Find the integral of  $x^4 + e^x$ .

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- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	$16/9$
2)	$1/3$
3)	$16x^3$
4)	$7$
5)	$\text{Cos}(\log x) \cdot 1/x$
6)	$\text{Sin} x + x \text{Cos} x$

7)	$(x \sec^2 x \cdot \log x - \tan x) / x(\log x)^2$
8)	$x^8 / 8 + C$
9)	$2\sqrt{x} + C$
10)	$x^5 / 5 + e^x + C$