

IREE ACAD

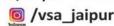


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Class - 12th

Chapter-8

Subject Maths

Worksheet-37

Application of Derivatives

Using differentials, find the approximate value of each of the following.

$$2. (0.999)^{1/10}$$

3.
$$\sqrt{0.0037}$$

4.
$$\frac{1}{(2.002)^2}$$

5.
$$(15)^{1/4}$$

6.
$$\sqrt{401}$$

7.
$$(3.968)^{3/2}$$

9.
$$\sqrt{0.6}$$

10.
$$\log_{10}(10.1)$$
, when $\log_{10} e = 0.4343$

11.
$$\log_e(10.02)$$
, when $\log_e 10 = 2.3026$