

Ex. 6 : Find the approximate value of $\log_{10}(998)$. Given that $\log_{10} e = 0.4343$.

Solution : Let $f(x) = \log_{10} x = \frac{\log x}{\log 10}$
 $\therefore f(x) = (\log_{10} e) \cdot \log x \quad \dots (I)$

Differentiate w. r. t. x .

$$f'(x) = \frac{\log_{10} e}{x} = \frac{0.4343}{x} \quad \dots (II)$$

Let $a = 1000$, $h = -2$

For $x = a = 1000$, from (I) we get

$$f(a) = f(1000) = \log_{10} 1000$$

$$\therefore f(a) = 3 \log_{10} 10 = 3 \quad \dots (III)$$

For $x = a = 1000$, from (II) we get

$$f'(a) = f'(1000) = \frac{0.4343}{1000}$$

$$\therefore f'(a) = 0.0004343 \quad \dots (IV)$$

We have, $f(a + h) \approx f(a) + h f'(a)$

$$f[1000 + (-2)] \approx f(1000) + (-2) f'(1000)$$

$$f(998) \approx 3 - (2)(0.0004343) \dots$$

[From (III) and (IV)]

$$\approx 3 - 0.0008686$$

$$f(998) = \log(998) \approx 2.9991314$$

Ex. 7 : Find the approximate value of $f(x) = x^3 + 5x^2 - 2x + 3$ at $x = 1.98$.

Solution : Let $f(x) = x^3 + 5x^2 - 2x + 3 \quad \dots (I)$

Differentiate w. r. t. x .

$$f'(x) = 3x^2 + 10x - 2 \quad \dots (II)$$

Let $a = 2$, $h = -0.02$

For $x = a = 2$, from (I) we get

$$f(a) = f(2) = (2)^3 + 5(2)^2 - 2(2) + 3$$

$$\therefore f(a) = 27 \quad \dots (III)$$

For $x = a = 2$, from (II) we get

$$f'(a) = f'(2) = 3(2)^2 + 10(2) - 2$$

$$\therefore f'(a) = 30 \quad \dots (IV)$$

We have, $f(a + h) \approx f(a) + h f'(a)$

$$f[(2) + (-0.02)] \approx f(2) + (-0.02) \cdot f'(2)$$

$$f(1.98) \approx 27 - (0.02)(30) \dots [\text{From (III) and (IV)}]$$

$$\approx 27 - 0.6$$

$$f(1.98) \approx 26.4$$

EXERCISE 2.2

(1) Find the approximate value of given functions, at required points.

(i) $\sqrt{8.95}$ (ii) $\sqrt[3]{28}$ (iii) $\sqrt[3]{31.98}$

(iv) $(3.97)^4$ (v) $(4.01)^3$

(2) Find the approximate value of

(i) $\sin(61^\circ)$ given that $1^\circ = 0.0175^\circ$, $\sqrt{3} = 1.732$

(ii) $\sin(29^\circ 30')$ given that $1^\circ = 0.0175^\circ$, $\sqrt{3} = 1.732$

(iii) $\cos(60^\circ 30')$ given that $1^\circ = 0.0175^\circ$, $\sqrt{3} = 1.732$

(iv) $\tan(45^\circ 40')$ given that $1^\circ = 0.0175^\circ$.

(3) Find the approximate value of

(i) $\tan^{-1}(0.999)$ (ii) $\cot^{-1}(0.999)$

(iii) $\tan^{-1}(1.001)$

(4) Find the approximate value of

(i) $e^{2.999}$ (ii) $e^{2.1}$ given that $e^2 = 7.389$

(iii) $3^{2.01}$ given that $\log 3 = 1.0986$

(5) Find the approximate value of

(i) $\log_e(101)$ given that $\log_e 10 = 2.3026$

(ii) $\log_e(9.01)$ given that $\log 3 = 1.0986$

(iii) $\log_{10}(1016)$ given that $\log_{10} e = 0.4343$

(6) Find the approximate value of

(i) $f(x) = x^3 - 3x + 5$ at $x = 1.99$

(ii) $f(x) = x^3 + 5x^2 - 7x + 10$ at $x = 1.12$

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R Sandford



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