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$$\sum_{n=0}^{\infty} \frac{f^{(n)}(a)}{n!} (x-a)^n \quad f(x) = \ln(3-x) = \ln(1) = 0$$

Let  $f$  be the function given by  $f(x) = \ln(3-x)$ . The third-degree Taylor polynomial for  $f$  about  $x=2$  is

$-(x-2) + \frac{(x-2)^2}{2} - \frac{(x-2)^3}{3}$

$-(x-2) - \frac{(x-2)^2}{2} - \frac{(x-2)^3}{3}$

$(x-2) + (x-2)^2 + (x-2)^3$

$(x-2) + \frac{(x-2)^2}{2} + \frac{(x-2)^3}{3}$

$(x-2) - \frac{(x-2)^2}{2} + \frac{(x-2)^3}{3}$

$$f(x) = f(a) + f'(a)(x-a) + \frac{f''(a)}{2!}(x-a)^2 + \frac{f'''(a)}{3!}(x-a)^3 + \dots$$

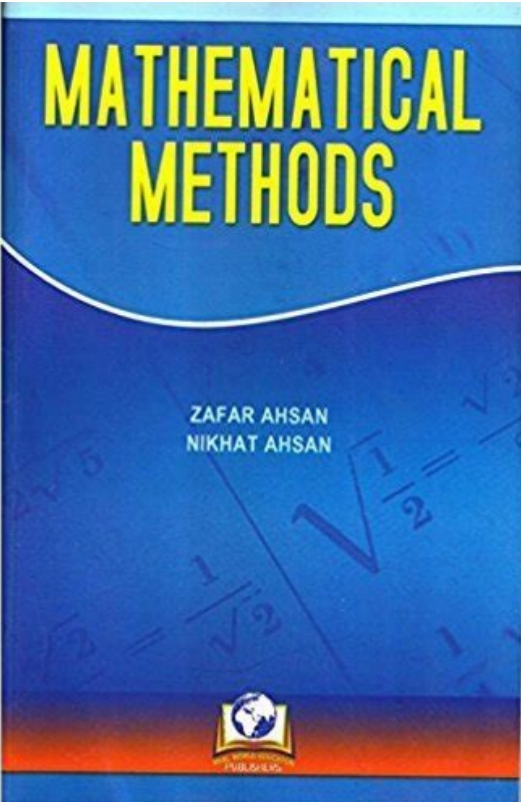
$$= f(2) + f'(2)(x-2) + \frac{f''(2)}{2!}(x-2)^2 + \frac{f'''(2)}{3!}(x-2)^3$$

$$f(x) = \frac{1}{3-x} \quad f'(x) = \frac{-1}{3-x} \quad f'(2) = \frac{-1}{3-2} = -1$$

$$f''(x) = \frac{d}{dx} \left[ \frac{-1}{3-x} \right] = \frac{1}{(3-x)^2} \quad f''(2) = \frac{1}{(3-2)^2} = 1$$

$$f'''(x) = \frac{2}{(3-x)^3} \quad f'''(2) = \frac{2}{(3-2)^3} = 2$$

[Video](#)



### Practice Problem 3

Section I

Answer

1. (a)  $\frac{1}{2}$  (b)  $\frac{1}{2}$  (c)  $\frac{1}{2}$  (d)  $\frac{1}{2}$  (e)  $\frac{1}{2}$

2. (a)  $\frac{1}{2}$  (b)  $\frac{1}{2}$  (c)  $\frac{1}{2}$  (d)  $\frac{1}{2}$  (e)  $\frac{1}{2}$

3. (a)  $\frac{1}{2}$  (b)  $\frac{1}{2}$  (c)  $\frac{1}{2}$  (d)  $\frac{1}{2}$  (e)  $\frac{1}{2}$

4. (a)  $\frac{1}{2}$  (b)  $\frac{1}{2}$  (c)  $\frac{1}{2}$  (d)  $\frac{1}{2}$  (e)  $\frac{1}{2}$

5. (a)  $\frac{1}{2}$  (b)  $\frac{1}{2}$  (c)  $\frac{1}{2}$  (d)  $\frac{1}{2}$  (e)  $\frac{1}{2}$

6. (a)  $\frac{1}{2}$  (b)  $\frac{1}{2}$  (c)  $\frac{1}{2}$  (d)  $\frac{1}{2}$  (e)  $\frac{1}{2}$

7. (a)  $\frac{1}{2}$  (b)  $\frac{1}{2}$  (c)  $\frac{1}{2}$  (d)  $\frac{1}{2}$  (e)  $\frac{1}{2}$

8. (a)  $\frac{1}{2}$  (b)  $\frac{1}{2}$  (c)  $\frac{1}{2}$  (d)  $\frac{1}{2}$  (e)  $\frac{1}{2}$

9. (a)  $\frac{1}{2}$  (b)  $\frac{1}{2}$  (c)  $\frac{1}{2}$  (d)  $\frac{1}{2}$  (e)  $\frac{1}{2}$

10. (a)  $\frac{1}{2}$  (b)  $\frac{1}{2}$  (c)  $\frac{1}{2}$  (d)  $\frac{1}{2}$  (e)  $\frac{1}{2}$



Calculus Review Test

1. Find the average rate of change (AROC) over the interval  $[2, 4]$ .

2. Find the instantaneous rate of change (IROC) at the point  $(1, 1)$ .

3. Find the equation of the line tangent to the curve  $y = x^2 + 1$  at  $x = 2$ .

4. Find the slope of the normal line to  $y = x^2 + 1$  at the point  $(2, 5)$ .

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