

EXERCISE 11.1

PAGE NO: 11.17

Differentiate the following functions from the first principles:

1. e^{-x}

Solution:

We have to find the derivative of e^{-x} with the first principle method,

So let $f(x) = e^{-x}$

By using the first principle formula, we get,

$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$

$$f'(x) = \lim_{h \rightarrow 0} \frac{e^{-(x+h)} - e^{-x}}{h}$$

$$f'(x) = \lim_{h \rightarrow 0} \frac{e^{-x}(e^{-h} - 1)}{h}$$

$$f'(x) = \lim_{h \rightarrow 0} \frac{e^{-x}(e^{-h} - 1)(-1)}{h(-1)}$$

$$\text{[By using } \lim_{x \rightarrow 0} \frac{e^x - 1}{x} = 1]$$

$$f'(x) = -e^{-x}$$

2. e^{3x}

Solution:

We have to find the derivative of e^{3x} with the first principle method,

So, let $f(x) = e^{3x}$

By using the first principle formula, we get,

$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$

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Peipei Pang



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 - Advantages of eBooks Over Traditional Books
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 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
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 - Features to Look for in an Hsc Maths Unit 2 Differentiation Part2 Exercise Solutions Free
 - User-Friendly Interface
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 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc Maths Unit 2 Differentiation Part2 Exercise Solutions Free
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 - Minimizing Distractions
 - Managing Screen Time
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 - Utilizing eBooks for Skill Development

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