Let's calculate smth with expression given:

$$(5.000^{(x-3.000)}) \cdot \ln x$$

Calculating the first derivation of it:

1 step: finding a derivation of funtion:

3.000

here it is:

0.000

2 step: finding a derivation of funtion:

x

here it is:

1.000

3 step: finding a derivation of funtion:

(x - 3.000)

here it is:

1.000

4 step: finding a derivation of funtion:

 $(5.000^{(x-3.000)})$

here it is:

 $1.609 \cdot (5.000^{(x-3.000)})$

5 step: finding a derivation of funtion:

x

here it is:

1.000

6 step: finding a derivation of funtion:

 $\ln x$

here it is:

1.000

7 step: finding a derivation of funtion:

 $(5.000^{(x-3.000)}) \cdot \ln x$

here it is:

$$((5.000^{(x-3.000)}) \cdot \frac{1.000}{x} + \ln x \cdot 1.609 \cdot (5.000^{(x-3.000)}))$$

Thus, the first derivation:

$$((5.000^{(x-3.000)}) \cdot \frac{1.000}{x} + \ln x \cdot 1.609 \cdot (5.000^{(x-3.000)}))$$

Calculating the second derivation of it:

1 step: finding a derivation of funtion:

 \boldsymbol{x}

here it is:

1.000

2 step: finding a derivation of funtion:

 $\ln x$

here it is:

 $\frac{1.000}{r}$

3 step: finding a derivation of funtion:

1.609

here it is:

0.000

4 step: finding a derivation of funtion:

3.000

here it is:

0.000

5 step: finding a derivation of funtion:

 \boldsymbol{x}

here it is:

1.000

6 step: finding a derivation of funtion:

(x - 3.000)

here it is:

1.000

7 step: finding a derivation of funtion:

$$(5.000^{(x-3.000)})$$

here it is:

$$1.609 \cdot (5.000^{(x-3.000)})$$

8 step: finding a derivation of funtion:

$$1.609 \cdot (5.000^{(x-3.000)})$$

here it is:

$$1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)})$$

9 step: finding a derivation of funtion:

$$\ln x \cdot 1.609 \cdot (5.000^{(x-3.000)})$$

here it is:

$$(\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)}) + 1.609 \cdot (5.000^{(x-3.000)}) \cdot \frac{1.000}{x})$$

10 step: finding a derivation of funtion:

3.000

here it is:

0.000

11 step: finding a derivation of funtion:

 \boldsymbol{x}

here it is:

1.000

12 step: finding a derivation of funtion:

$$(x - 3.000)$$

here it is:

1.000

13 step: finding a derivation of funtion:

 $(5.000^{(x-3.000)})$

here it is:

$$1.609 \cdot (5.000^{(x-3.000)})$$

14 step: finding a derivation of funtion:

 \boldsymbol{x}

here it is:

1.000

15 step: finding a derivation of funtion:

1.000

here it is:

0.000

16 step: finding a derivation of funtion:

$$\frac{1.000}{x}$$

here it is:

$$\frac{(0.000 - 1.000)}{(x^{2.000})}$$

17 step: finding a derivation of funtion:

$$(5.000^{(x-3.000)}) \cdot \frac{1.000}{x}$$

here it is:

$$\left(\left(5.000^{(x-3.000)} \right) \cdot \frac{-1.000}{(x^{2.000})} + \frac{1.000}{x} \cdot 1.609 \cdot \left(5.000^{(x-3.000)} \right) \right)$$

18 step: finding a derivation of funtion:

$$((5.000^{(x-3.000)}) \cdot \frac{1.000}{x} + \ln x \cdot 1.609 \cdot (5.000^{(x-3.000)}))$$

here it is:

$$(((5.000^{(x-3.000)}) \cdot \frac{-1.000}{(x^{2.000})} + \frac{1.000}{x} \cdot 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)}) + 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot$$

Thus, the second derivation:

$$(((5.000^{(x-3.000)}) \cdot \frac{-1.000}{(x^{2.000})} + \frac{1.000}{x} \cdot 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)}) + 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.609 \cdot 1.609 \cdot (5.000^{(x-3.000)})) + (\ln x \cdot 1.6$$