CrInGeCrInGe Production. Super cringe introduction here:
Let's calculate smth with expression given: f(x) =

$$\frac{x^{3.000} + \frac{1.000}{\sinh\left(2.000 \cdot x^{2.000} + x + 3.000\right)}}{\ln \arctan x}$$

Firstly, let's insert all constants and simplify it:

$$\frac{x^{3.000} + \frac{1.000}{\sinh\left(2.000 \cdot x^{2.000} + x + 3.000\right)}}{\ln \arctan x}$$

BRITISH SCIENTISTS WERE SHOCKED, WHEN THEY COUNT IT!!! IN THE POINT (x = 0.500)IT'S VALUE = -0.210 !!!

1 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

2 step: finding a derivation of function:

$$\arctan x$$

here it is:

$$\frac{1.000}{1.000 + x^{2.000}}$$

3 step: finding a derivation of function:

$$\ln \arctan x$$

here it is:

$$\frac{1.000}{\arctan x} \cdot \frac{1.000}{1.000 + x^{2.000}}$$

4 step: finding a derivation of function:

$$3.000$$

here it is:

$$0.000$$

5 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

6 step: finding a derivation of function:

$$x$$

$$1$$

here it is:

$$1.000$$

7 step: finding a derivation of function:

$$x^{2.000}$$

here it is:

$$2.000 \cdot x$$

8 step: finding a derivation of function:

$$2.000$$

here it is:

$$0.000$$

9 step: finding a derivation of function:

$$2.000 \cdot x^{2.000}$$

here it is:

$$2.000 \cdot 2.000 \cdot x$$

10 step: finding a derivation of function:

$$2.000 \cdot x^{2.000} + x$$

here it is:

$$2.000 \cdot 2.000 \cdot x + 1.000$$

11 step: finding a derivation of function:

$$(2.000 \cdot x^{2.000} + x + 3.000)$$

here it is:

$$2.000 \cdot 2.000 \cdot x + 1.000$$

12 step: finding a derivation of function:

$$\sinh\left(2.000 \cdot x^{2.000} + x + 3.000\right)$$

here it is:

$$\cosh\left(2.000 \cdot x^{2.000} + x + 3.000\right) \cdot (2.000 \cdot 2.000 \cdot x + 1.000)$$

13 step: finding a derivation of function:

$$1.000$$

here it is:

$$0.000$$

14 step: finding a derivation of function:

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

here it is:

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

15 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

16 step: finding a derivation of function:

$$x^{3.000}$$

here it is:

$$3.000 \cdot x^{2.000}$$

17 step: finding a derivation of function:

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

here it is:

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

18 step: finding a derivation of function:

$$\frac{x^{3.000} + \frac{1.000}{\sinh\left(2.000 \cdot x^{2.000} + x + 3.000\right)}}{\ln \arctan x}$$

here it is:

$$\frac{(3.000 \cdot x^{2.000} + \frac{(-1.000) \cdot \cosh\left(2.000 \cdot x^{2.000} + x + 3.000\right) \cdot (2.000 \cdot 2.000 \cdot x + 1.000)}{\left(\sinh\left(2.000 \cdot x^{2.000} + x + 3.000\right)\right)^{2.000}}) \cdot \ln \arctan x - \frac{1.000}{\arctan x} \cdot \frac{1.000}{1.000 + x^{2.000}} \cdot (x^{3.}}{\left(\ln \arctan x\right)^{2.000}}$$

Congratulations! The first derivation of the expression is:

$$\frac{(3.000 \cdot x^{2.000} + \frac{(-1.000) \cdot \cosh\left(2.000 \cdot x^{2.000} + x + 3.000\right) \cdot (2.000 \cdot 2.000 \cdot x + 1.000)}{\left(\sinh\left(2.000 \cdot x^{2.000} + x + 3.000\right)\right)^{2.000}}) \cdot \ln \arctan x - \frac{1.000}{\arctan x} \cdot \frac{1.000}{1.000 + x^{2.000}} \cdot (x^{3.}}{\left(\ln \arctan x\right)^{2.000}}$$

IN THE POINT (x = 0.500)IT'S VALUE = -1.305 !!!

Let's calculate the 2 derivation of the expression:

Calculating the 1 derivation of the expression:
1 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

2 step: finding a derivation of function:

$$\arctan x$$

here it is:

$$\frac{1.000}{1.000 + x^{2.000}}$$

3 step: finding a derivation of function:

$$\ln \arctan x$$

here it is:

$$\frac{1.000}{\arctan x} \cdot \frac{1.000}{1.000 + x^{2.000}}$$

4 step: finding a derivation of function:

$$3.000$$

here it is:

$$0.000$$

5 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

6 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

7 step: finding a derivation of function:

$$x^{2.000}$$

here it is:

$$2.000 \cdot x$$

8 step: finding a derivation of function:

$$2.000$$

here it is:

$$0.000$$

9 step: finding a derivation of function:

$$2.000 \cdot x^{2.000}$$

here it is:

$$2.000 \cdot 2.000 \cdot x$$

10 step: finding a derivation of function:

$$2.000 \cdot x^{2.000} + x$$

here it is:

$$2.000 \cdot 2.000 \cdot x + 1.000$$

11 step: finding a derivation of function:

$$(2.000 \cdot x^{2.000} + x + 3.000)$$

here it is:

$$2.000 \cdot 2.000 \cdot x + 1.000$$

12 step: finding a derivation of function:

$$\sinh\left(2.000 \cdot x^{2.000} + x + 3.000\right)$$

here it is:

$$\cosh\left(2.000 \cdot x^{2.000} + x + 3.000\right) \cdot (2.000 \cdot 2.000 \cdot x + 1.000)$$

13 step: finding a derivation of function:

$$1.000$$

here it is:

$$0.000$$

14 step: finding a derivation of function:

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

here it is:

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

15 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

16 step: finding a derivation of function:

$$x^{3.000}$$

here it is:

$$3.000 \cdot x^{2.000}$$

17 step: finding a derivation of function:

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

here it is:

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

18 step: finding a derivation of function:

$$\frac{x^{3.000} + \frac{1.000}{\sinh\left(2.000 \cdot x^{2.000} + x + 3.000\right)}}{\ln \arctan x}$$

here it is:

$$\frac{(3.000 \cdot x^{2.000} + \frac{(-1.000) \cdot \cosh\left(2.000 \cdot x^{2.000} + x + 3.000\right) \cdot (2.000 \cdot 2.000 \cdot x + 1.000)}{\left(\sinh\left(2.000 \cdot x^{2.000} + x + 3.000\right)\right)^{2.000}}) \cdot \ln \arctan x - \frac{1.000}{\arctan x} \cdot \frac{1.000}{1.000 + x^{2.000}} \cdot (x^{3.}}{(\ln \arctan x)^{2.000}}$$

Calculating the 2 derivation of the expression:

1 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

2 step: finding a derivation of function:

$$\arctan x$$

here it is:

$$\frac{1.000}{1.000 + x^{2.000}}$$

3 step: finding a derivation of function:

$$(\ln \arctan x)$$

here it is:

$$\frac{1.000}{\arctan x} \cdot \frac{1.000}{1.000 + x^{2.000}}$$

4 step: finding a derivation of function:

$$(\ln \arctan x)^{2.000}$$

here it is:

$$2.000 \cdot \ln \arctan x \cdot \frac{1.000}{\arctan x} \cdot \frac{1.000}{1.000 + x^{2.000}}$$

5 step: finding a derivation of function:

$$3.000$$

here it is:

$$0.000$$

6 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

7 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

8 step: finding a derivation of function:

$$x^{2.000}$$

here it is:

$$2.000 \cdot x$$

9 step: finding a derivation of function:

$$2.000$$

here it is:

$$0.000$$

10 step: finding a derivation of function:

$$2.000 \cdot x^{2.000}$$

here it is:

$$2.000 \cdot 2.000 \cdot x$$

11 step: finding a derivation of function:

$$2.000 \cdot x^{2.000} + x$$

here it is:

$$2.000 \cdot 2.000 \cdot x + 1.000$$

12 step: finding a derivation of function:

$$(2.000 \cdot x^{2.000} + x + 3.000)$$

here it is:

$$2.000 \cdot 2.000 \cdot x + 1.000$$

13 step: finding a derivation of function:

$$\sinh(2.000 \cdot x^{2.000} + x + 3.000)$$

here it is:

$$\cosh(2.000 \cdot x^{2.000} + x + 3.000) \cdot (2.000 \cdot 2.000 \cdot x + 1.000)$$

14 step: finding a derivation of function:

$$1.000$$

here it is:

$$0.000$$

15 step: finding a derivation of function:

$$\frac{1.000}{\sinh(2.000 \cdot x^{2.000} + x + 3.000)}$$

here it is:

$$\frac{(-1.000) \cdot \cosh(2.000 \cdot x^{2.000} + x + 3.000) \cdot (2.000 \cdot 2.000 \cdot x + 1.000)}{(\sinh(2.000 \cdot x^{2.000} + x + 3.000))^{2.000}}$$

16 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

17 step: finding a derivation of function:

$$x^{3.000}$$

here it is:

$$3.000 \cdot x^{2.000}$$

18 step: finding a derivation of function:

$$(x^{3.000} + \frac{1.000}{\sinh(2.000 \cdot x^{2.000} + x + 3.000)})$$

here it is:

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

19 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

20 step: finding a derivation of function:

$$x^{2.000}$$

here it is:

$$2.000 \cdot x$$

21 step: finding a derivation of function:

$$1.000$$

here it is:

$$0.000$$

22 step: finding a derivation of function:

$$1.000 + x^{2.000}$$

here it is:

$$2.000 \cdot x$$

23 step: finding a derivation of function:

$$1.000$$

here it is:

$$0.000$$

24 step: finding a derivation of function:

$$\frac{1.000}{1.000 + x^{2.000}}$$

here it is:

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

25 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

26 step: finding a derivation of function:

$$\arctan x$$

here it is:

$$\frac{1.000}{1.000 + x^{2.000}}$$

27 step: finding a derivation of function:

$$1.000$$

here it is:

$$0.000$$

28 step: finding a derivation of function:

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

here it is:

$$\frac{(-1.000) \cdot \frac{1.000}{1.000 + x^{2.000}}}{(\arctan x)^{2.000}}$$

29 step: finding a derivation of function:

$$\frac{1.000}{\arctan x} \cdot \frac{1.000}{1.000 + x^{2.000}}$$

here it is:

$$\frac{(-1.000) \cdot \frac{1.000}{1.000 + x^{2.000}}}{(\arctan x)^{2.000}} \cdot \frac{1.000}{1.000 + x^{2.000}} + \frac{(-1.000) \cdot 2.000 \cdot x}{(1.000 + x^{2.000})^{2.000}} \cdot \frac{1.000}{\arctan x}$$

30 step: finding a derivation of function:

$$\frac{1.000}{\arctan x} \cdot \frac{1.000}{1.000 + x^{2.000}} \cdot (x^{3.000} + \frac{1.000}{\sinh\left(2.000 \cdot x^{2.000} + x + 3.000\right)})$$

here it is:

$$(\frac{(-1.000) \cdot \frac{1.000}{1.000 + x^{2.000}}}{(\arctan x)^{2.000}} \cdot \frac{1.000}{1.000 + x^{2.000}} + \frac{(-1.000) \cdot 2.000 \cdot x}{(1.000 + x^{2.000})^{2.000}} \cdot \frac{1.000}{\arctan x}) \cdot (x^{3.000} + \frac{1.000}{\sinh\left(2.000 \cdot x^{2.000} + x\right.}$$

31 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

32 step: finding a derivation of function:

$$\arctan x$$

here it is:

$$\frac{1.000}{1.000 + x^{2.000}}$$

33 step: finding a derivation of function:

$$\ln \arctan x$$

here it is:

$$\frac{1.000}{\arctan x} \cdot \frac{1.000}{1.000 + x^{2.000}}$$

34 step: finding a derivation of function:

$$3.000$$

here it is:

$$0.000$$

35 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

36 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

37 step: finding a derivation of function:

$$x^{2.000}$$

here it is:

$$2.000 \cdot x$$

38 step: finding a derivation of function:

$$2.000$$

here it is:

$$0.000$$

39 step: finding a derivation of function:

$$2.000 \cdot x^{2.000}$$

here it is:

$$2.000 \cdot 2.000 \cdot x$$

40 step: finding a derivation of function:

$$2.000 \cdot x^{2.000} + x$$

here it is:

$$2.000 \cdot 2.000 \cdot x + 1.000$$

41 step: finding a derivation of function:

$$(2.000 \cdot x^{2.000} + x + 3.000)$$

here it is:

$$2.000 \cdot 2.000 \cdot x + 1.000$$

42 step: finding a derivation of function:

$$(\sinh(2.000 \cdot x^{2.000} + x + 3.000))$$

here it is:

$$\cosh(2.000 \cdot x^{2.000} + x + 3.000) \cdot (2.000 \cdot 2.000 \cdot x + 1.000)$$

43 step: finding a derivation of function:

$$(\sinh(2.000 \cdot x^{2.000} + x + 3.000))^{2.000}$$

here it is:

$$2.000 \cdot \sinh(2.000 \cdot x^{2.000} + x + 3.000) \cdot \cosh(2.000 \cdot x^{2.000} + x + 3.000) \cdot (2.000 \cdot 2.000 \cdot x + 1.000)$$

44 step: finding a derivation of function:

$$1.000$$

here it is:

$$0.000$$

45 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

46 step: finding a derivation of function:

$$2.000$$

here it is:

$$0.000$$

47 step: finding a derivation of function:

$$2.000 \cdot x$$

here it is:

$$2.000$$

48 step: finding a derivation of function:

$$2.000$$

here it is:

$$0.000$$

49 step: finding a derivation of function:

$$2.000 \cdot 2.000 \cdot x$$

here it is:

$$4.000$$

50 step: finding a derivation of function:

$$(2.000 \cdot 2.000 \cdot x + 1.000)$$

here it is:

$$4.000$$

51 step: finding a derivation of function:

$$3.000$$

here it is:

$$0.000$$

52 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

53 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

54 step: finding a derivation of function:

$$x^{2.000}$$

here it is:

$$2.000 \cdot x$$

55 step: finding a derivation of function:

$$2.000$$

here it is:

$$0.000$$

56 step: finding a derivation of function:

$$2.000 \cdot x^{2.000}$$

here it is:

$$2.000 \cdot 2.000 \cdot x$$

57 step: finding a derivation of function:

$$2.000 \cdot x^{2.000} + x$$

here it is:

$$2.000 \cdot 2.000 \cdot x + 1.000$$

58 step: finding a derivation of function:

$$(2.000 \cdot x^{2.000} + x + 3.000)$$

here it is:

$$2.000 \cdot 2.000 \cdot x + 1.000$$

59 step: finding a derivation of function:

$$\cosh\left(2.000 \cdot x^{2.000} + x + 3.000\right)$$

here it is:

$$\sinh\left(2.000 \cdot x^{2.000} + x + 3.000\right) \cdot (2.000 \cdot 2.000 \cdot x + 1.000)$$

60 step: finding a derivation of function:

$$\cosh\left(2.000 \cdot x^{2.000} + x + 3.000\right) \cdot (2.000 \cdot 2.000 \cdot x + 1.000)$$

here it is:

$$\sinh\left(2.000 \cdot x^{2.000} + x + 3.000\right) \cdot (2.000 \cdot 2.000 \cdot x + 1.000) \cdot (2.000 \cdot 2.000 \cdot x + 1.000) + 4.000 \cdot \cosh\left(2.000 \cdot$$

61 step: finding a derivation of function:

$$(-1.000)$$

here it is:

$$0.000$$

62 step: finding a derivation of function:

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

here it is:

$$(-1.000) \cdot (\sinh\left(2.000 \cdot x^{2.000} + x + 3.000\right) \cdot (2.000 \cdot 2.000 \cdot x + 1.000) \cdot (2.000 \cdot 2.000 \cdot x + 1.000) + 4.000 \cdot c$$

63 step: finding a derivation of function:

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

here it is:

$$\frac{(-1.000) \cdot (\sinh\left(2.000 \cdot x^{2.000} + x + 3.000\right) \cdot (2.000 \cdot 2.000 \cdot x + 1.000) \cdot (2.000 \cdot 2.000 \cdot x + 1.000) + 4.000 \cdot c}{}$$

64 step: finding a derivation of function:

$$x$$

here it is:

$$1.000$$

65 step: finding a derivation of function:

$$x^{2.000}$$

here it is:

$$2.000 \cdot x$$

66 step: finding a derivation of function:

$$3.000$$

here it is:

$$0.000$$

67 step: finding a derivation of function:

$$3.000 \cdot x^{2.000}$$

here it is:

$$3.000 \cdot 2.000 \cdot x$$

68 step: finding a derivation of function:

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

here it is:

$$3.000 \cdot 2.000 \cdot x + \frac{(-1.000) \cdot (\sinh(2.000 \cdot x^{2.000} + x + 3.000) \cdot (2.000 \cdot 2.000 \cdot x + 1.000) \cdot (2.000 \cdot 2.000 \cdot x +$$

69 step: finding a derivation of function:

$$(3.000 \cdot x^{2.000} + \frac{(-1.000) \cdot \cosh(2.000 \cdot x^{2.000} + x + 3.000) \cdot (2.000 \cdot 2.000 \cdot x + 1.000)}{(\sinh(2.000 \cdot x^{2.000} + x + 3.000))^{2.000}}) \cdot \ln \arctan x$$

here it is:

$$(3.000 \cdot 2.000 \cdot x + \frac{(-1.000) \cdot (\sinh(2.000 \cdot x^{2.000} + x + 3.000) \cdot (2.000 \cdot 2.000 \cdot x + 1.000) \cdot (2.000 \cdot 2.000 \cdot x +$$

70 step: finding a derivation of function:

$$(3.000 \cdot x^{2.000} + \frac{(-1.000) \cdot \cosh(2.000 \cdot x^{2.000} + x + 3.000) \cdot (2.000 \cdot 2.000 \cdot x + 1.000)}{(\sinh(2.000 \cdot x^{2.000} + x + 3.000))^{2.000}}) \cdot \ln \arctan x - \frac{1.00}{\arctan}$$

here it is:

$$((3.000 \cdot 2.000 \cdot x + \frac{(-1.000) \cdot (\sinh(2.000 \cdot x^{2.000} + x + 3.000) \cdot (2.000 \cdot 2.000 \cdot x + 1.000) \cdot (2.000 \cdot 2.000 \cdot x$$

71 step: finding a derivation of function:

$$\frac{(3.000 \cdot x^{2.000} + \frac{(-1.000) \cdot \cosh(2.000 \cdot x^{2.000} + x + 3.000) \cdot (2.000 \cdot 2.000 \cdot x + 1.000)}{(\sinh(2.000 \cdot x^{2.000} + x + 3.000))^{2.000}}) \cdot \ln \arctan x - \frac{1.000}{\arctan x} \cdot \frac{1.000}{1.000 + x^{2.000}} \cdot (x^{3.}}{(\ln \arctan x)^{2.000}}$$

here it is:

$$(((3.000 \cdot 2.000 \cdot x + \frac{(-1.000) \cdot (\sinh(2.000 \cdot x^{2.000} + x + 3.000) \cdot (2.000 \cdot 2.000 \cdot x + 1.000) \cdot (2.000 \cdot 2.000 \cdot x + 1.000) + 4.000 \cdot \cosh(2.000 \cdot x^{2.}}{}$$

Finally... The 2 derivation of the expression:

$$(((3.000 \cdot 2.000 \cdot x + \frac{(-1.000) \cdot (\sinh(2.000 \cdot x^{2.000} + x + 3.000) \cdot (2.000 \cdot 2.000 \cdot x + 1.000) \cdot (2.000 \cdot 2.000 \cdot x + 1.000) + 4.000 \cdot \cosh(2.000 \cdot x^{2.}}{}$$

BRITISH SCIENTISTS WERE SHOCKED, WHEN THEY COUNT THE 2 DERIVATION OF THIS EXPRESSION!!! IN THE POINT (x = 0.500)IT'S VALUE = -8.808 !!!

Partial derivation of the expression on the variable 'x':

$$\frac{(3.000 \cdot x^{2.000} + \frac{(-1.000) \cdot \cosh(2.000 \cdot x^{2.000} + x + 3.000) \cdot (2.000 \cdot 2.000 \cdot x + 1.000)}{(\sinh(2.000 \cdot x^{2.000} + x + 3.000))^{2.000}}) \cdot \ln \arctan x - \frac{1.000}{\arctan x} \cdot \frac{1.000}{1.000 + x^{2.000}} \cdot (x^{3.}}{(\ln \arctan x)^{2.000}}$$

IN THE POINT (x = 0.500) IT'S VALUE = -1.304734 !!!

Full derivation:

$$\sqrt{(\frac{(3.000 \cdot x^{2.000} + \frac{(-1.000) \cdot \cosh(2.000 \cdot x^{2.000} + x + 3.000) \cdot (2.000 \cdot 2.000 \cdot x + 1.000)}{(\sinh(2.000 \cdot x^{2.000} + x + 3.000))^{2.000}}) \cdot \ln \arctan x - \frac{1.000}{\arctan x} \cdot \frac{1.000}{1.000 + x^{2.000}} \cdot (}{(\ln \arctan x)^{2.000}}$$

IN THE POINT (x = 0.500)IT'S VALUE = 1.305 !!!

Let's consider the expression as a function of x variable: f(x) =

$$\frac{x^{3.000} + \frac{1.000}{\sinh(2.000 \cdot x^{2.000} + x + 3.000)}}{\ln \arctan x}$$

Maklorens formula for x near to 0.500000:

$$(-0.210) + (-1.305) \cdot (x - 0.500) + (-4.404) \cdot (x - 0.500)^{2.000} + (-8.328) \cdot (x - 0.500)^{3.000}$$

And remainig member is o maloe from:

$$(x - 0.500)^{3.000}$$

Graph f(x):

Tangent equation in point 4.000: f(x) =

$$134.496 \cdot (x - 4.000) + 226.927$$

Normal equation in point 4.000: f(x) =

$$(-0.007) \cdot (x - 4.000) + 226.927$$