«I fucking love science»

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Contents

I	Getting superhard tangent	1
II	Getting superhard Taylor series	2
Ш	Calculating too easy differentiation	ϵ

I Getting superhard tangent

 $\ln(\arctan(x+x)^2)^2. \tag{1}$

Lets find the tangent!

We must differentiate expression to find tangent parameters.

Starting differentiation... After elementary simplifications, it is obvious that it is equal to

$$\frac{1}{1+A_{1}} \cdot 2 \cdot (B_{1}^{C_{1}}) \cdot \frac{1}{\arctan(D_{1})^{2}} \cdot 2 \cdot (\ln(E_{1}^{2})^{2-1}).$$

$$A_{1} = (x+x)^{2}.$$

$$B_{1} = \arctan(x+x).$$

$$C_{1} = 2-1.$$

$$D_{1} = x+x.$$

$$E_{1} = \arctan(x+x).$$
(2)

Lets simplify this expression. At that very lecture you missed, it was proved that this is equal to

$$\frac{1}{1+A_1}\cdot 2\cdot \arctan(B_1)\cdot \frac{1}{\arctan(C_1)^2}\cdot 2\cdot \ln(\arctan(D_1)^2).$$

$$A_1=(x+x)^2.$$

$$B_1=x+x.$$

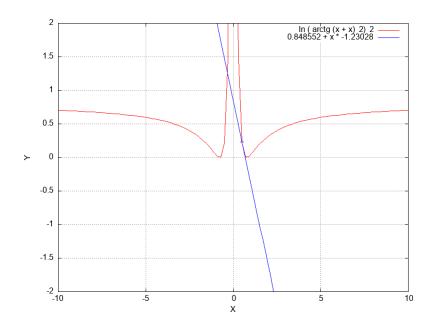
$$C_1=x+x.$$

$$D_1=x+x.$$
 (3)

Looks impressive. Still not as impressive as this dance from tiktok(I), so, we must made another transformation

 $0.848552 + x \cdot -1.23028.$

(4)



II Getting superhard Taylor series

Lets find Taylor series of:

$$\sin(x) + \cos(x). \tag{5}$$

We need to differentiate this:

$$\sin(x) + \cos(x). \tag{6}$$

Starting differentiation... Zhirinovsky suggested (2) to do this simplification

$$1 \cdot \cos(x) + -1 \cdot 1 \cdot \sin(x). \tag{7}$$

Lets simplify this expression. At that very lecture you missed, it was proved that this is equal to

$$\cos(x) + -1 \cdot \sin(x). \tag{8}$$

We need to differentiate this:

$$\cos(x) + -1 \cdot \sin(x). \tag{9}$$

Starting differentiation... I would justify this transition, but the article will be more useful if you do it yourself

$$-1 \cdot 1 \cdot \sin(x) + 0 \cdot \sin(x) + -1 \cdot 1 \cdot \cos(x). \tag{10}$$

Lets simplify this expression. ARE YOU SURPRISED????(3) It is clear to the hedgehog that this is the same as

$$-1 \cdot \sin(x) + -1 \cdot \cos(x). \tag{11}$$

We need to differentiate this:

$$-1 \cdot \sin(x) + -1 \cdot \cos(x). \tag{12}$$

Starting differentiation... Zhirinovsky suggested (2) to do this simplification

$$0 \cdot \sin(x) + -1 \cdot 1 \cdot \cos(x) + 0 \cdot \cos(x) + -1 \cdot -1 \cdot 1 \cdot A_1.$$

$$A_1 = \sin(x).$$
(13)

Lets simplify this expression. A fitness trainer from Simferopol(4) threatens to beat you if you don't continue the transformation

$$-1 \cdot \cos(x) + -1 \cdot -1 \cdot \sin(x). \tag{14}$$

We need to differentiate this:

$$-1 \cdot \cos(x) + -1 \cdot -1 \cdot \sin(x). \tag{15}$$

Starting differentiation... Let's not bother with obvious proof that this is

$$0 \cdot \cos(x) + -1 \cdot -1 \cdot 1 \cdot A_1 + 0 \cdot -1 \cdot \sin(x) + -1 \cdot (0 \cdot B_1 + -1 \cdot C_1).$$

$$A_1 = \sin(x).$$

$$B_1 = \sin(x).$$

$$C_1 = 1 \cdot \cos(x).$$
(16)

Lets simplify this expression. Are you really still reading this?

$$-1 \cdot -1 \cdot \sin(x) + -1 \cdot -1 \cdot \cos(x). \tag{17}$$

We need to differentiate this:

$$-1 \cdot -1 \cdot \sin(x) + -1 \cdot -1 \cdot \cos(x). \tag{18}$$

Starting differentiation... A fitness trainer from Simferopol(4) threatens to beat you if you don't continue the transformation

$$0 \cdot -1 \cdot \sin(x) + -1 \cdot (0 \cdot A_1 + -1 \cdot B_1) + 0 \cdot -1 \cdot \cos(x) + -1 \cdot (0 \cdot C_1 + -1 \cdot D_1).$$

$$A_1 = \sin(x).$$

$$B_1 = 1 \cdot \cos(x).$$

$$C_1 = \cos(x).$$

$$D_1 = -1 \cdot 1 \cdot \sin(x).$$
(19)

Lets simplify this expression. Some guy from asylum (5) told me that this is equal to

$$-1 \cdot -1 \cdot \cos(x) + -1 \cdot -1 \cdot \sin(x). \tag{20}$$

We need to differentiate this:

$$-1 \cdot -1 \cdot \cos(x) + -1 \cdot -1 \cdot \sin(x). \tag{21}$$

Starting differentiation... After elementary simplifications, it is obvious that it is equal to

$$0 \cdot -1 \cdot \cos(x) + -1 \cdot (0 \cdot A_1 + -1 \cdot B_1) + 0 \cdot -1 \cdot -1 \cdot C_1 + -1 \cdot (0 \cdot D_1 + -1 \cdot (E_1)).$$

$$A_1 = \cos(x).$$

$$B_1 = -1 \cdot 1 \cdot \sin(x).$$

$$C_1 = \sin(x).$$

$$D_1 = -1 \cdot \sin(x).$$

$$E_1 = 0 \cdot \sin(x) + -1 \cdot 1 \cdot \cos(x).$$
(22)

Lets simplify this expression. Are you really still reading this?

$$-1 \cdot -1 \cdot -1 \cdot \sin(x) + -1 \cdot -1 \cdot -1 \cdot \cos(x). \tag{23}$$

Lets simplify this expression. This explanation is available only for premium readers of this article (4862 8784 4592 1552)

$$A_1 + B_1 + 0.424436 \cdot (C_1) + 0.188519 \cdot ((D_1)^3) + -0.0353697 \cdot ((x-3)^4) + -0.00942594 \cdot ((x-3)^5).$$

$$A_1 = -0.848872 \cdot 1.$$

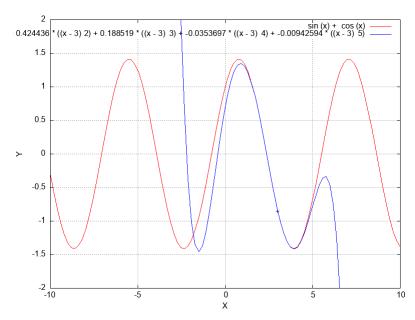
$$B_1 = -1.13111 \cdot (x-3).$$

$$C_1 = (x-3)^2.$$

$$D_1 = x - 3.$$

(24)

Taylor series is: $-0.848872 + -1.13111 \cdot (x-3) + 0.424436 \cdot ((x-3)^2) + 0.188519 \cdot ((x-3)^3) + -0.0353697 \cdot ((x-3)^4) + -0.00942594 \cdot ((x-3)^5) + o((x-3)^5)$.



Lets find out difference between:

$$\sin(x) + \cos(x). \tag{25}$$

and

$$-0.848872 + A_1 + 0.424436 \cdot (B_1) + 0.188519 \cdot ((C_1)^3) + -0.0353697 \cdot ((x-3)^4) + -0.00942594 \cdot ((x-3)^5).$$

$$A_1 = -1.13111 \cdot (x-3).$$

$$B_1 = (x-3)^2.$$

$$C_1 = x-3.$$

(26)

Looks impressive. Still not as impressive as this dance from tiktok(I), so, we must made another transformation

$$\sin(x) + \cos(x) - A_1 + B_1 + 0.188519 \cdot (C_1) + -0.0353697 \cdot ((D_1)^4) + -0.00942594 \cdot ((x-3)^5).$$

$$A_1 = -0.848872 + -1.13111 \cdot (x-3).$$

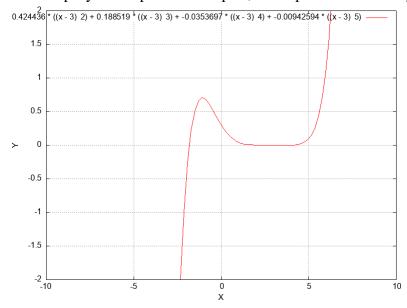
$$B_1 = 0.424436 \cdot ((x-3)^2).$$

$$C_1 = (x-3)^3.$$

$$D_1 = x-3.$$

(27)

Lets simplify this expression. Oopsie, our expression is already too awesome.



III Calculating too easy differentiation

$$\ln(\arctan(x+x)^2)^2. \tag{28}$$

LET'S DIFFERENTIATE THIS!!! Are you really still reading this?

$$\frac{1}{1+A_{1}} \cdot 2 \cdot (B_{1}^{C_{1}}) \cdot \frac{1}{\arctan(D_{1})^{2}} \cdot 2 \cdot (\ln(E_{1}^{2})^{2-1}).$$

$$A_{1} = (x+x)^{2}.$$

$$B_{1} = \arctan(x+x).$$

$$C_{1} = 2-1.$$

$$D_{1} = x+x.$$

$$E_{1} = \arctan(x+x).$$
(29)

Lets simplify this expression. After elementary simplifications, it is obvious that it is equal to

$$\frac{1}{1+A_1} \cdot 2 \cdot \arctan(B_1) \cdot \frac{1}{\arctan(C_1)^2} \cdot 2 \cdot \ln(\arctan(D_1)^2).$$

$$A_1 = (x+x)^2.$$

$$B_1 = x+x.$$

$$C_1 = x+x.$$

$$D_1 = x+x.$$
(30)

LET'S DIFFERENTIATE THIS!!! Some guy from asylum (5) told me that this is equal to

$$((A_1 + B_1) \cdot \frac{1}{C_1} + D_1 \cdot E_1 \cdot \frac{F_1}{G_1}) \cdot 2 \cdot \ln(H_1^2) + \frac{1}{I_1} \cdot 2 \cdot J_1 \cdot \frac{1}{K_1^2} \cdot (0 \cdot \ln(L_1) + 2 \cdot M_1 \cdot N_1).$$

$$A_1 = \frac{0 \cdot (1 + A_2) - 1 \cdot (0 + B_2)}{(1 + (C_2)^2)^2} \cdot 2 \cdot \arctan(x + x).$$

$$A_2 = (x + x)^2.$$

$$B_2 = (1 + 1) \cdot 2 \cdot ((x + x)^{2-1}).$$

$$C_2 = x + x.$$

$$B_1 = \frac{1}{1 + (x + x)^2} \cdot (0 \cdot \arctan(x + x) + 2 \cdot \frac{1}{1 + A_3}).$$

$$A_3 = (x + x)^2.$$

$$C_1 = \arctan(x + x)^2.$$

$$D_1 = \frac{1}{1 + (x + x)^2}.$$

$$E_1 = 2 \cdot \arctan(x + x).$$

$$F_1 = 0 \cdot (\arctan(x + x)^2) - 1 \cdot \frac{1}{1 + A_7} \cdot 2 \cdot (B_7^{C_7}).$$

$$A_7 = (x + x)^2.$$

$$B_7 = \arctan(x + x).$$

$$C_7 = 2 - 1.$$

$$G_1 = (\arctan(x + x)^2)^2.$$

$$H_1 = \arctan(x + x).$$

$$I_1 = 1 + (x + x)^2.$$

$$J_1 = \arctan(x + x).$$

$$I_1 = 1 + (x + x)^2.$$

$$J_1 = \arctan(x + x).$$

$$K_1 = \arctan(x + x).$$

$$L_1 = \arctan(x + x)$$

Lets simplify this expression. At that very lecture you missed, it was proved that this is equal to

$$((A_1 + B_1) \cdot \frac{1}{C_1} + D_1 \cdot E_1 \cdot \frac{F_1}{G_1}) \cdot 2 \cdot \ln(H_1^2) + \frac{1}{I_1} \cdot 2 \cdot J_1 \cdot \frac{1}{K_1^2} \cdot 2 \cdot L_1 \cdot M_1 \cdot \frac{1}{N_1}.$$

$$A_1 = \frac{0 - 2 \cdot 2 \cdot (A_2)}{(1 + (B_2)^2)^2} \cdot 2 \cdot \arctan(x + x).$$

$$A_2 = x + x.$$

$$B_2 = x + x.$$

$$B_1 = \frac{1}{1 + (x + x)^2} \cdot 2 \cdot \frac{1}{1 + (A_3)^2}.$$

$$A_3 = x + x.$$

$$C_1 = \arctan(x + x)^2.$$

$$D_1 = \frac{1}{1 + (x + x)^2}.$$

$$E_1 = 2 \cdot \arctan(x + x).$$

$$F_1 = 0 - \frac{1}{1 + (A_7)^2} \cdot 2 \cdot \arctan(x + x).$$

$$A_7 = x + x.$$

$$G_1 = (\arctan(x + x)^2)^2.$$

$$H_1 = \arctan(x + x).$$

$$I_1 = 1 + (x + x)^2.$$

$$J_1 = \arctan(x + x).$$

$$K_1 = \arctan(x + x).$$

$$L_1 = \frac{1}{1 + (x + x)^2}.$$

$$M_1 = \arctan(x + x).$$

$$N_1 = \arctan(x + x).$$

LET'S DIFFERENTIATE THIS!!! A fitness trainer from Simferopol(4) threatens to beat you if you don't continue the transformation

$$\begin{split} (A_1 + B_1 + C_1 + B_1) & \cdot 2 \cdot \ln(E_1) + ((F_1) \cdot G_1 + H_1 \cdot H_1) \cdot (0 \cdot J_1 + 2 \cdot K_1) + ((L_1) \cdot M_1 + N_1 \cdot O_1) \cdot 2 \cdot P_1 \cdot Q_1 + R_1 \cdot S_1 \cdot \frac{1}{T_1} \cdot (0 \cdot U_1 + 2 \cdot I_1) \\ A_1 & = \left(\frac{A_2}{B_2} \cdot 2 \cdot C_2 + \frac{D_2}{E_2} \cdot (E_2 + G_2) + \frac{H_2}{I_2} \cdot 2 \cdot J_2 + \frac{1}{K_2} \cdot (L_2 + M_2)\right) \cdot \frac{1}{\arctan(x + x)^2}, \\ A_2 & = (0 - 0 \cdot A_3 + 2 \cdot (B_3)) \cdot ((1 + (C_3)^2)^2) - (0 - 2 \cdot 2 \cdot (D_3)) \cdot (0 + (E_3) \cdot F_3) \cdot 2 \cdot ((G_3)^{H_3}), \\ A_3 & = 2 \cdot (x + x). \\ B_3 & = 0 \cdot (x + x) + 2 \cdot (1 + 1), \\ C_3 & = x + x, \\ B_3 & = x + x. \\ E_3 & = 1 + 1, \\ F_3 & = 2 \cdot ((x + x)^2)^2, \\ G_3 & = 1 + (x + x)^2, \\ H_3 & = 2 \cdot ((x + x)^2)^2, \\ C_2 & = \arctan(x + x), \\ D_2 & = 0 - 2 \cdot 2 \cdot (x + x), \\ E_2 & = (1 + (x + x)^2)^2, \\ E_2 & = 0 \cdot \arctan(x + x), \\ G_2 & = 2 \cdot \frac{1}{1 + (x + x)^2}, \\ F_2 & = 0 \cdot \arctan(x + x), \\ G_2 & = 2 \cdot \frac{1}{1 + (x + x)^2}, \\ I_2 & = 0 \cdot (1 + (x + x)^2) - 1 \cdot (0 + (1 + 1) \cdot 2 \cdot (A_{10})), \\ A_{10} & = (x + x)^{2-1}, \\ I_2 & = (1 + (x + x)^2)^2, \\ I_2 & = 0 \cdot \frac{1}{1 + (x + x)^2}, \\ I_2 & = 0 \cdot \frac{1}{1 + (x + x)^2}, \\ I_2 & = 0 \cdot \frac{1}{1 + (x + x)^2}, \\ I_3 & = (x + x)^2, \\ I_4 & = (x + x)^2, \\ I_5 & = (x + x)^2, \\ I_5 & = (x + x)^2, \\ I_6 & = (x + x)^2, \\ I_7 & = (x + x)^2, \\ I_8 & = (x + x)^2, \\$$

 $C = (A_4 - B_4)$ aroton (D_1)

 $(0 \cdot F_1 + 2 \cdot C_1) \cdot \frac{0 - \frac{1}{H_4} \cdot 2 \cdot I_4}{1 + \frac{1}{H_4} \cdot 2 \cdot I_4}$

Lets simplify this expression. Let's not bother with obvious proof that this is

$$\begin{split} (A_1 + B_1 + C_1 + D_1) \cdot 2 \cdot \ln(E_1) + ((E_1) \cdot G_1 + H_1 \cdot I_1) \cdot 2 \cdot J_1 \cdot K_1 + ((L_1) \cdot M_1 + N_1 \cdot O_1) \cdot 2 \cdot P_1 \cdot Q_1 + R_1 \cdot S_1 \cdot \frac{1}{P_1} \cdot 2 \cdot (U_1 + V_1), \\ A_1 &= (\frac{A_2}{B_2} \cdot 2 \cdot C_2 + \frac{D_2}{E_2} \cdot 2 \cdot E_3 + \frac{G_2}{H_2} \cdot 2 \cdot I_2 + \frac{1}{J_2} \cdot 2 \cdot K_2) \cdot \frac{1}{\arctan(\pi + x)^2}, \\ A_2 &= (0 - 2 \cdot 4) \cdot ((1 + (A_3)^2)^2) - (0 - 2 \cdot 2 \cdot (B_3)) \cdot 2 \cdot 2 \cdot (C_3) \cdot 2 \cdot (1 + D_3), \\ A_3 &= x + x, \\ C_3 &= x + x, \\ D_3 &= (x + x)^2, \\ B_2 &= ((1 + (x + x)^2)^2)^2, \\ C_2 &= \arctan(x + x), \\ B_2 &= 0 - 2 \cdot 2 \cdot (x + x), \\ E_2 &= (1 + (x + x)^2)^2, \\ E_2 &= (1 + (x + x)^2)^2, \\ E_2 &= (1 + (x + x)^2)^2, \\ I_2 &= \frac{1}{1 + (x + x)^2}, \\ I_2 &= \frac{0 - 2 \cdot 2 \cdot (x + x)}{(1 + (x + x)^2)^2}, \\ B_1 &= (\frac{0 - A_1}{(B_3)^2} \cdot 2 \cdot \arctan(C_3) + \frac{1}{1 + D_3} \cdot 2 \cdot \frac{1}{F_3}) \cdot \frac{0 - \frac{1}{F_3} \cdot 2 \cdot G_3}{(\arctan(H_3)^2)^2}, \\ A_3 &= 2 \cdot 2 \cdot (x + x), \\ B_3 &= 1 + (x + x)^2, \\ C_3 &= x + x, \\ D_3 &= (x + x)^2, \\ E_3 &= 1 + (x + x)^2, \\ G_3 &= \arctan(x + x), \\ H_3 &= x + x, \\ C_1 &= (\frac{0 - A_4}{(B_4)^2} \cdot 2 \cdot \arctan(C_4) + \frac{1}{1 + D_2} \cdot 2 \cdot \frac{1}{E_4}) \cdot \frac{0 - \frac{1}{F_4} \cdot 2 \cdot G_4}{(\arctan(H_3)^2)^3}, \\ A_1 &= 2 \cdot 2 \cdot (x + x), \\ B_2 &= 1 + (x + x)^2, \\ C_4 &= x + x, \\ D_1 &= (x + x)^2, \\ E_4 &= 1 + (x + x)^2, \\ E_4 &= 1 + (x + x)^2, \\ G_4 &= \arctan(x + x), \\ H_1 &= x + x, \\ D_1 &= (1 + (x + x)^2) \cdot ((G_3^2)^2) - (0 - D_5) \cdot E_5 \cdot E_5, \\ ((G_3^2)^2)^2 &= ((G_3^2)^2 + x, \\ A_3 &= \mathbf{H} + x. \end{cases}$$

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