This is the beginning of an exciting subtraction of derivatives. Relax and enjoy!

By Tuzman Alexander

December 16, 2020

1 This is subtraction of 1'st derivative

Let's make simpler $\sin(3+7+1+x)+(\cos(x))^2$
Now this expression simpled to $\sin(11+x)+(\cos(x))^2$
Let's differentiate x
Now this expression turned into 1
Let's differentiate $\cos(x)$
Now this expression turned into $(0-\sin(x))\cdot 1$
Let's differentiate $(\cos(x))^2$

Now this expression turned into $(\cos(x))^{2-1} \cdot 2 \cdot (0 - \sin(x)) \cdot 1$
Let's differentiate x
Now this expression turned into 1
Let's differentiate 11
Now this expression turned into 0
Let's differentiate $11 + x$
Now this expression turned into $0 + 1$
Let's differentiate $\sin(11 + x)$
Now this expression turned into $\cos(11 + x) \cdot (0 + 1)$
Let's differentiate $\sin(11 + x) + (\cos(x))^2$
Now this expression turned into $\cos(11+x) \cdot (0+1) + (\cos(x))^{2-1} \cdot 2 \cdot (0 - \sin(x)) \cdot 1$
Let's make simpler $\cos(11 + x) \cdot (0 + 1) + (\cos(x))^{2-1} \cdot 2 \cdot (0 - \sin(x)) \cdot 1$
Now this expression simpled to $\cos(11 + x) + \cos(x) \cdot 2 \cdot \sin(x)$
$\cos(11 + x) + \cos(x) \cdot 2 \cdot \sin(x)$

2 This is subtraction of 2'st derivative

Let's make simpler $\cos(11 + x) + \cos(x) \cdot 2 \cdot \sin(x)$
Now this expression simpled to $\cos(11 + x) + \cos(x) \cdot 2 \cdot \sin(x)$
Let's differentiate x
Now this expression turned into 1
Let's differentiate $\sin(x)$
Now this expression turned into $\cos(x) \cdot 1$
Let's differentiate 2
Now this expression turned into 0
Let's differentiate x
Now this expression turned into 1
Let's differentiate $\cos(x)$
Now this expression turned into $(0 - \sin(x)) \cdot 1$
Let's differentiate $\cos(x) \cdot 2$
Now this expression turned into $(0 - \sin(x)) \cdot 1 \cdot 2 + \cos(x) \cdot 0$
Let's differentiate $\cos(x) \cdot 2 \cdot \sin(x)$
Now this expression turned into $((0 - \sin(x)) \cdot 1 \cdot 2 + \cos(x) \cdot 0) \cdot \sin(x) + \cos(x) \cdot 2 \cdot \cos(x) \cdot 1$
Let's differentiate x
Now this expression turned into 1
Let's differentiate 11
Now this expression turned into 0
Let's differentiate $11 + x$
Now this expression turned into $0 + 1$
Let's differentiate $\cos(11 + x)$
Now this expression turned into $(0 - \sin(11 + x)) \cdot (0 + 1)$
Let's differentiate $\cos(11 + x) + \cos(x) \cdot 2 \cdot \sin(x)$
Now this expression turned into $(0 - \sin(11 + x)) \cdot (0 + 1) + ((0 - \sin(x)) \cdot 1 \cdot 2 + \cos(x) \cdot 0) \cdot \sin(x) + \cos(x) \cdot 2 \cdot \cos(x) \cdot 1$

Let's make simpler $(0 - \sin(11 + x)) \cdot (0 + 1) + ((0 - \sin(x)) \cdot 1 \cdot 2 + \cos(x) \cdot 0) \cdot \sin(x) + \cos(x) \cdot 2 \cdot \cos(x) \cdot 1$
Now this expression simpled to $\sin(11 + x) + \sin(x) \cdot 2 \cdot \sin(x) + \cos(x) \cdot 2 \cdot \cos(x)$
$\sin(11 + x) + \sin(x) \cdot 2 \cdot \sin(x) + \cos(x) \cdot 2 \cdot \cos(x)$
That is all!