Initial:

$$(\exp(4x) \cdot \sin x)'$$

Let's simplify the expression:

4

Let's stop and think... Let's simplify the expression:

 \boldsymbol{x}

Let's simplify the expression:

(4x)

It turned out:

(4x)

Aren't you feeling old. Let's simplify the expression:

$$\exp(4x)$$

I think, its time to stop, but we must go on. It turned out:

$$\exp(4x)$$

Let's simplify the expression:

 \boldsymbol{x}

Would you like to commit a suicide? I would. Let's simplify the expression:

 $\sin x$

We can see, that it is not good enough. It turned out:

 $\sin x$

As you may want to continue. Let's simplify the expression:

$$\exp(4x) \cdot \sin x$$

It turned out:

$$\exp(4x) \cdot \sin x$$

Let's stop and think... Let's make a differential of:

4

It's going to be:

0

Let's make a differential of:

x

Aren't you feeling old. It's going to be:

1

I think, its time to stop, but we must go on. Let's make a differential of:

(4x)

It's going to be:

$$0x + 4 \cdot 1$$

Would you like to commit a suicide? I would. Let's make a differential of:

$$\exp(4x)$$

We can see, that it is not good enough. It's going to be:

$$(0x+4\cdot 1)\cdot \exp(4x)$$

As you may want to continue. Let's make a differential of:

x

It's going to be:

1

Let's stop and think... Let's make a differential of:

 $\sin x$

It's going to be:

 $1 \cdot \cos x$

Let's make a differential of:

$$\exp(4x) \cdot \sin x$$

Aren't you feeling old. It's going to be:

$$((0x+4\cdot 1)\cdot \exp{(4x)})\cdot \sin x + \exp{(4x)}\cdot (1\cdot \cos x)$$

I think, its time to stop, but we must go on. Let's simplify the expression:

0

Let's simplify the expression:

x

0x
We can see, that it is not good enough. It turned out:
0
As you may want to continue. Let's simplify the expression:
4
Let's simplify the expression: 1
Let's stop and think Let's simplify the expression:
$4\cdot 1$
It turned out:
Let's simplify the expression: $(0+4)$
Aren't you feeling old. It turned out: 4
I think, its time to stop, but we must go on. Let's simplify the expression:
4
Let's simplify the expression:
x Would you like to commit a suicide? I would. Let's simplify the expression:
(4x) We can see that it is not read arough. It turned out:
We can see, that it is not good enough. It turned out:
(4x)
As you may want to continue. Let's simplify the expression:
$\exp{(4x)}$
It turned out: $\exp{(4x)}$

Would you like to commit a suicide? I would. Let's simplify the expression:

Let's stop and think... Let's simplify the expression:

 $(4 \cdot \exp(4x))$

It turned out:

 $(4 \cdot \exp(4x))$

Let's simplify the expression:

x

Aren't you feeling old. Let's simplify the expression:

 $\sin x$

I think, its time to stop, but we must go on. It turned out:

 $\sin x$

Let's simplify the expression:

$$(4 \cdot \exp(4x)) \cdot \sin x$$

Would you like to commit a suicide? I would. It turned out:

$$(4 \cdot \exp(4x)) \cdot \sin x$$

We can see, that it is not good enough. Let's simplify the expression:

4

As you may want to continue. Let's simplify the expression:

x

Let's simplify the expression:

(4x)

Let's stop and think... It turned out:

(4x)

Let's simplify the expression:

 $\exp(4x)$

It turned out:

 $\exp(4x)$

Aren't you feeling old. Let's simplify the expression:

1

I think, its time to stop, but we must go on. Let's simplify the expression:

 \boldsymbol{x}

Let's simplify the expression:

 $\cos x$

Would you like to commit a suicide? I would. It turned out:

 $\cos x$

We can see, that it is not good enough. Let's simplify the expression:

$$(1 \cdot \cos x)$$

As you may want to continue. It turned out:

 $\cos x$

Let's simplify the expression:

$$\exp(4x) \cdot \cos x$$

Let's stop and think... It turned out:

$$\exp(4x) \cdot \cos x$$

Let's simplify the expression:

$$(4 \cdot \exp(4x)) \cdot \sin x + \exp(4x) \cdot \cos x$$

It turned out:

$$(4 \cdot \exp(4x)) \cdot \sin x + \exp(4x) \cdot \cos x$$