

ບົດທະນາ y' ເພື່ອ $2x y^2 + \cos(xy) = x + y$

ວິຊີກົງ ດີພທົງ ສະກາຣ ຈະຍົດວິວ

$$(2x y^2 + \cos(xy))' = x + y'$$

$$(2x y^2)' + (\cos(xy))' = (x)' + (y)'$$

$$(2x)(y^2)' + (y^2)(2x)' + (-\sin(xy)) \cdot (xy)' = 1 + y'$$

$$(2x)(2yy') + y^2(2) - \sin(xy) \cdot (xy' + y \cdot 1) = 1 + y'$$

$$\cancel{(2x)(2yy')} + \cancel{y^2(2)} - \sin(xy) \cdot (xy' + y) = 1 + y'$$

ຄໍາໄລ່ຕ້ອງຈຳຮູບ ສ້ອງກ່ານນູອດ ແກ້ຕຽນນີ້
ຖືກວ່າລົບ

ດູ້ນກຮ=ຈາຍເພື່ອຈັດວິນ $4xy y' + 2y^2 - \sin(xy)(xy' + y) = 1 + y'$

ຄ້າຍທັງ $4xy y' + 2y^2 - \sin(xy) \cdot xy' - \sin(xy) \cdot y = 1 + y'$

ດັງຕັ້ງຮັມ y' $4xy y' - \sin(xy) \cdot xy' - y = 1 - 2y^2 + \sin(xy) \cdot y$

$$y' (4xy - x \sin(xy) - 1) = 1 - 2y^2 + y \sin(xy)$$

$$y' = \frac{1 - 2y^2 + y \sin(xy)}{4xy - x \sin(xy) - 1}$$

សូលម្រណ៍និង y' ដែល $(2xy^2 + \cos(xy)) = x+y$

សំខាន់ $(2xy^2 + \cos(xy) = x+y)' \quad \checkmark$

$$(2xy^2)' + (\cos(xy))' = (x+y)' \quad \checkmark$$

$$2x \cdot 2y \cdot y' + y^2 \cdot 2 - \sin(xy) = y' + 1$$

$$4xy(y') + 2y^2 - \sin(xy) = y' + 1$$

$$4xy(y') + 2y^2 - \sin(xy) - y' = 1$$

$$y'(y') = \frac{-2y^2 \cdot xy + \sin(xy)}{4} \quad \times$$

អ.វ.ករុណា ជ័យវិនិក 570612059

អ.វ. ទៅវណា ភាគពីរិបៀប 570612062

អ.វ. វិរ៉ោនុណ្ឌ វិនិក 570612054

អ.វ. គុណធម្ម សោរាលក្យក់ 570612073

អ.វ. ឈរុវិនិត្យ ឈរុវិនិត្យ 570612070

ແກ່ມີຢັງ

$$\text{ດັບ} xy' \text{ ເພື່ອ } 2xy^2 + \cos(xy) = x+y$$

$$[4xyy' + y^2(2)] + -\sin(xy)(xy' + y(1)) = 1+y'$$

$$4xyy' + 2y^2 - \sin(xy)(xy' + y) = 1+y' \quad \#$$

$$y' \left(\frac{1-2y^2}{-\sin(xy)x} - \frac{y}{x} \right) = \frac{\sin(xy)x}{4xy}$$

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($\frac{10}{10}$)

$$4xyy' - y' - \sin(xy)(xy' + y) = 1-2y^2 \quad \checkmark$$

$$y'(4xy-1) - \sin(xy)(xy' + y) = 1-2y^2 \quad \checkmark$$

$$-\sin(xy)(xy' + y) = 1-2y^2 - y'(4xy-1) \quad \text{ມີຄວາມ} = 0$$

$$-xy' = \frac{1-2y^2 - y'(4xy-1)}{-\sin(xy)x} - \frac{y}{x}$$

$$\frac{y' + y'(4xy-1)}{-\sin(xy)x} = \frac{1-2y^2}{-\sin(xy)x} - \frac{y}{x}$$

$$\frac{y' + y'(1+4xy-1)}{\sin(xy)x} = \frac{1-2y^2}{-\sin(xy)x} - \frac{y}{x}$$

ຫຸ້ນຕູ້ນໄຕໄປ້ນີ້ ຂັ້ນທີ່ແບ່ນນີ້ ອິນດູກໂຮງໝາຍ sin(xy)
ດາວັນ
~~ຈະ~~ ຈະ ຈະ

ໄປ່ມີຫຼັກ ທ້າຍ ພົມ ຂວາງ ຄວາມ

ດອງ ແລະ ຮູ່ຢູ່ປະເທົ່ານັ້ນ ແລະ ດິລະຍອດນະຄວນ

ສົມຕະລຸພະນັກ
ຕຳມາເກີນ
570612065

ດາວັນ
ເສັ້ນ
570612055

ດັບ
ຕຳມາເກີນ
570612058.

ຊື່ ດັບ
ຕຳມາເກີນ
570612064

$$\text{ຈະ} \quad y' \text{ เมื่อ } 2xy^2 + \cos(xy) = x + y$$

$$(2xy^2 + \cos(xy))' = x + y$$

$$(2xy^2)' + (\cos(xy))' = x' + y'$$

$$2(x \cdot 2yy' + y^2) - \sin(xy) \cdot (xy' + y) = 1 + y^2 \quad \checkmark$$

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| ទីន៍រោគ | វត្ថុកល | 570612066 |
| ចូលរាប់ | បង្កើតរោង | 570612063 |
| ពេទ្យរាល់ | សំណងជនភោត | |
| 570612077 | | |

ទូទាត់ y' ដែល $2x^2 + \cos(xy) = x+y$ (មិនអាចរាយក្រារបាន)

$$2[x[2y]y' + y^2] + [-\sin(xy)][x(y') + y(1)] = y' + 1$$

$$4xy(y') + 2y^2 + [-\sin(xy)][x(y') + y] = y' + 1$$

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| ឃាយ កំពង់ផែ | វិនាទនកុងធម្ម | 570612056 |
| ឃាយ ក្រុងកំពង់ | ស៊ីមឈារ | 570612057 |
| ឃាយ ចិត្តធម្ម | លេខរុងធម្ម | 570612060 |
| ឃាយ កញ្ចប់ធម្ម | សាមីរាជ | 570612062 |
| ឃាយ ទុកដាក់ | លេខរុងធម្ម | 570612078 |

ເບີບັດກົດ

ກົດຂາ y' ເພື່ອ

ບິນຍຸງ ພັດທະນະລິ້ງການ 570612064

ຄົວມົງ ອານວິໄລ

570612075

$$2xy^2 + \cos(xy) = x + y$$

$$(2x(y^2))' + y^2(2x)' - \sin(xy) = x' + y'$$

$$[2x(2y)y'] + y^2(2) - \sin(xy) = y' + 1$$

$$(4xy)(y') + 2y^2 - \sin(xy) = y' + 1$$

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✗

✓ ✓

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ເບີນຝັດນິກ

$$\text{ຈະນາ } y' \stackrel{?}{=} 2xy^2 + \cos(xy) = x+y$$

$$(2xy^2 + \cos(xy) = x+y)'$$

$$(2xy^2)' + (\cos(xy))' = (x+y)' \quad \checkmark$$

$$2x \cdot (y^2)' + y^2 \cdot (2x)' + -\sin(xy) \cdot (xy)' = x' + y' \quad \checkmark$$

$$2x \cdot 2yy' + y^2 \cdot 2 + (-\sin(xy)) \cdot (xy' + y \cdot 1) = x' + y' \quad \checkmark$$

$$2x \cdot 2yy' + 2y^2 + (-\sin(xy)) \cdot (xy' + y) = 1 + y' \quad \checkmark$$

$$2x \cdot 2yy' - \sin(xy)xy' - y' = -2y^2 \quad \times$$

$$y'(2x^2y - \sin(xy)x - 1) = -2y^2 \quad \begin{array}{l} \text{ຄວາມຈິງຈົດນູ້ຖຸນະຄອຍ} \\ \text{ທຳມະກວນ} \end{array}$$

$$y' = \frac{-2y^2}{(2x^2y - \sin(xy)x - 1)}$$

$$y' = \frac{-2y^2}{(4xy - \sin(xy)x - 1)} \quad \times$$

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| ພາບຜົນລາຍງານ | ບົດກົມບົບ' | 570612071 |
| ແບບ ລາຍງານ | ດສລາຍງານ | 570612044 |
| ໂທ ປົກການ | ດາວໂຫ | 570612072 |
| ໂທ ພົມການ | ດີວິວວິກ | 570612069 |
| ໂທ ຈິປິນການ | ດົກທິກູດ | 570612068 |

ເບີນຝຳດິດ

$$\begin{array}{c} \text{ກົມ} \\ \hline \text{ຍັງ} & y' & \text{ແລ້ວ} \\ \hline \end{array}$$

$\frac{8}{10}$

$$2xy^2 + \cos(xy) = x + y$$

$$2 \left[x[2y]y' + y^2 \right] + [-\sin(xy)] [x[y'] + y[1]] = y' + 1$$

$$4xy[y'] + 2y^2 + [-\sin(xy)] [x[y'] + y] = y' + 1$$

*

ສົມບູນ ດັບ

ຄະນຸນ ເຈົ້າທີ່ນີ້ 570619050

ຕົກສິນຍົກ ຕົກຍ 570612041

ສູນຕົກສິນຍົກ ອົມາສ 560612153