

Differentialligninger Lektion 1 - Hvad er en differentialligning?

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Differentialaligning

$$\frac{dy}{dx}$$

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$$\frac{dy}{dx} = f'(x) \text{ , hvis } f(x) = y$$

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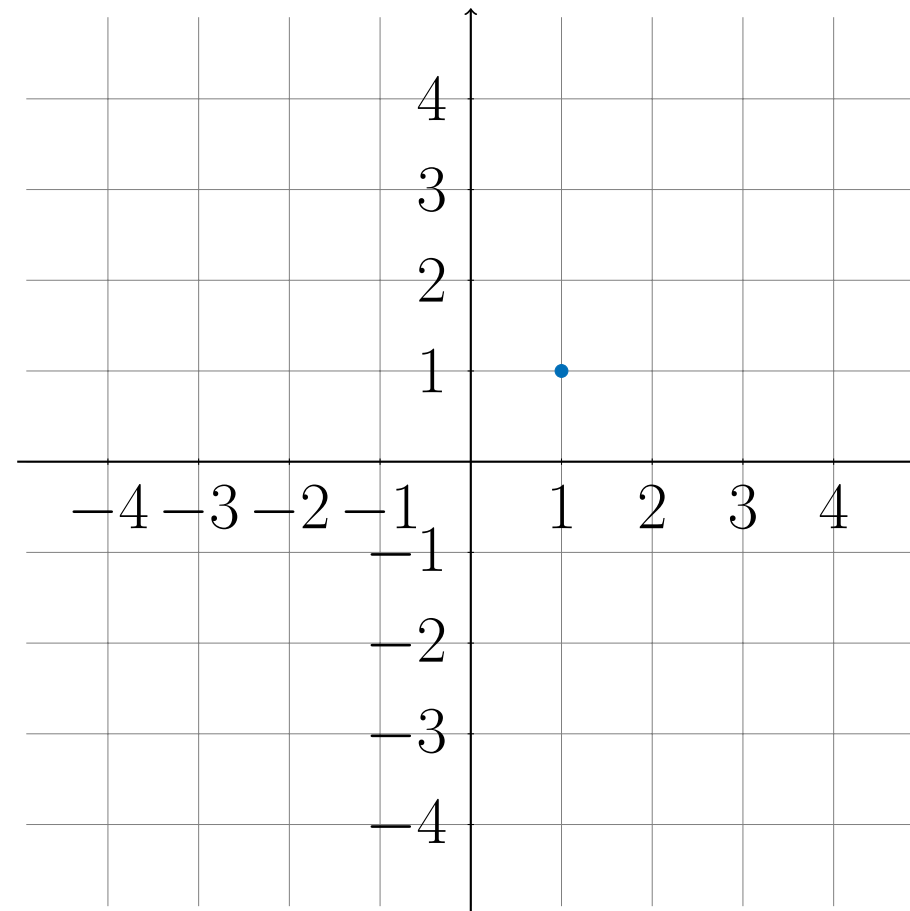
$$\frac{dy}{dx} = x - 2y$$

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$$x = 1 \text{ og } y = 1$$



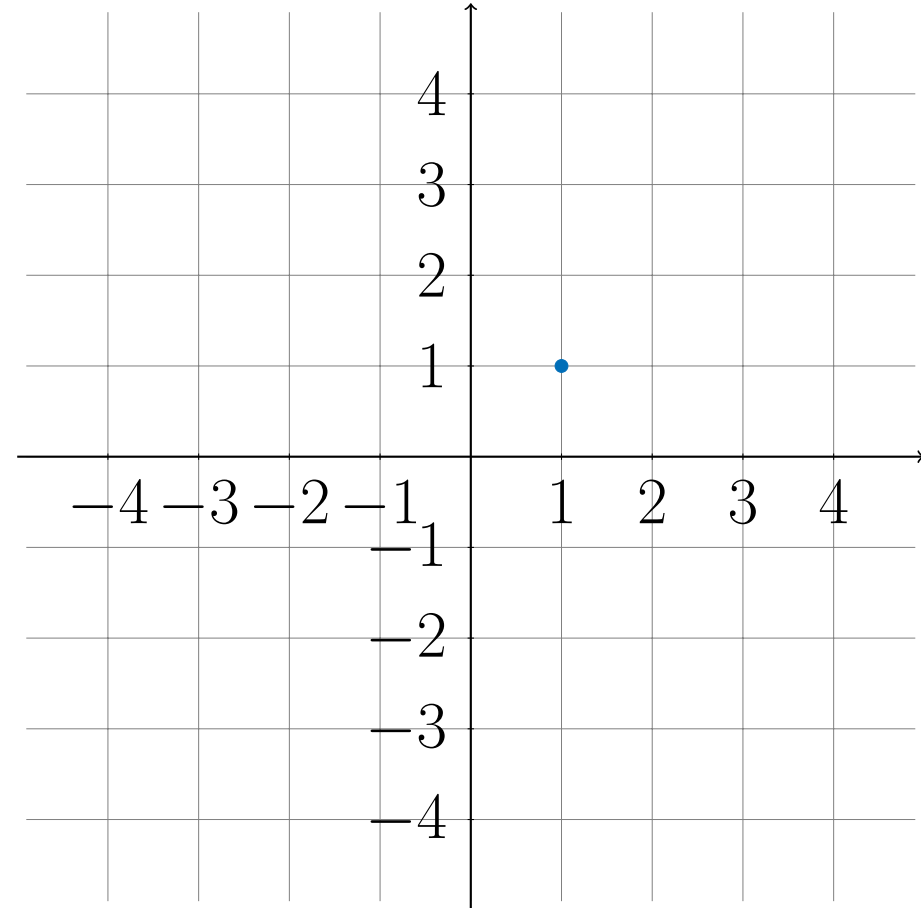
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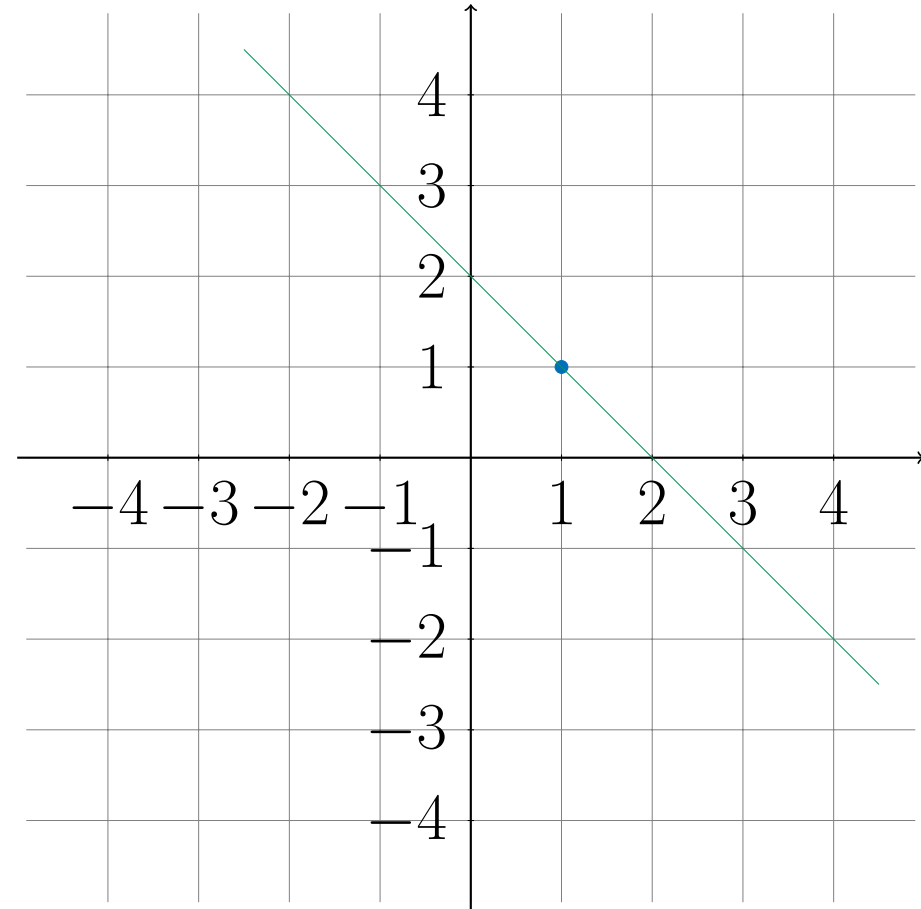
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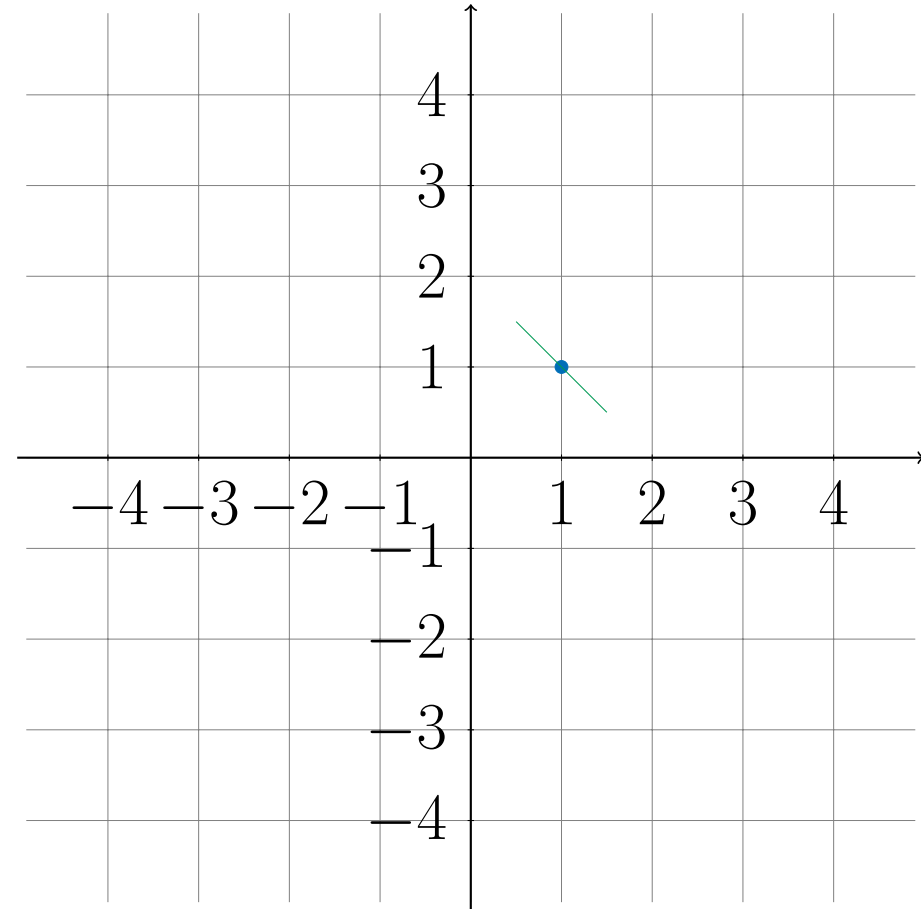
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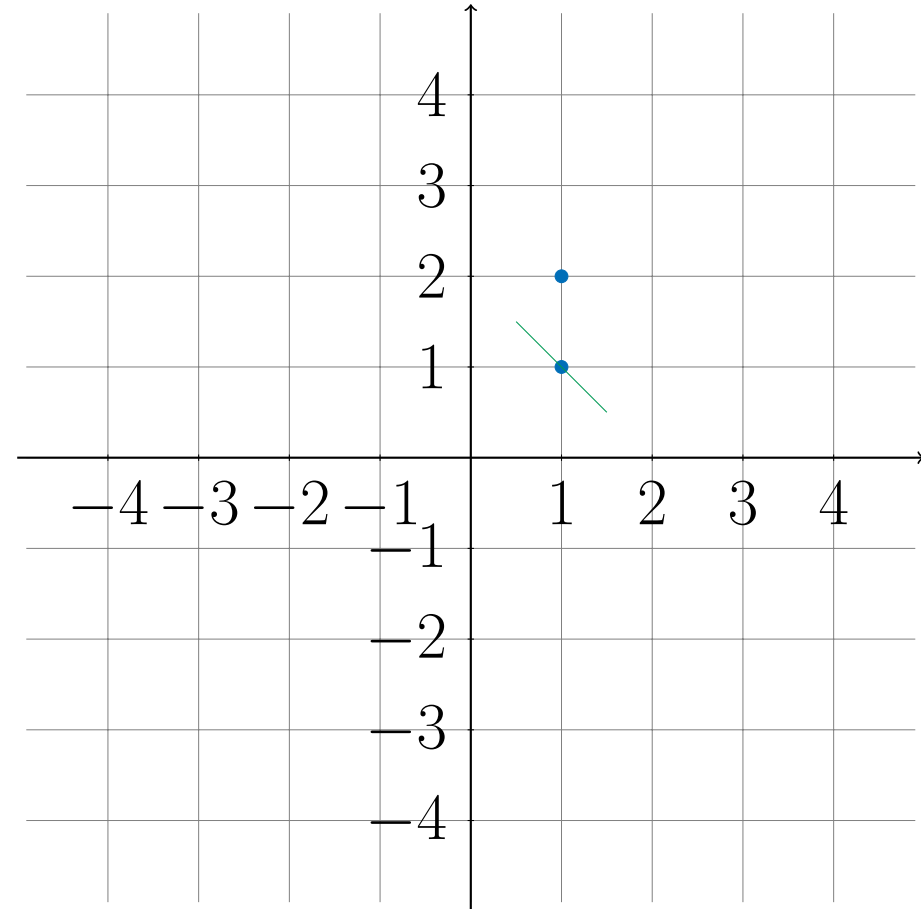


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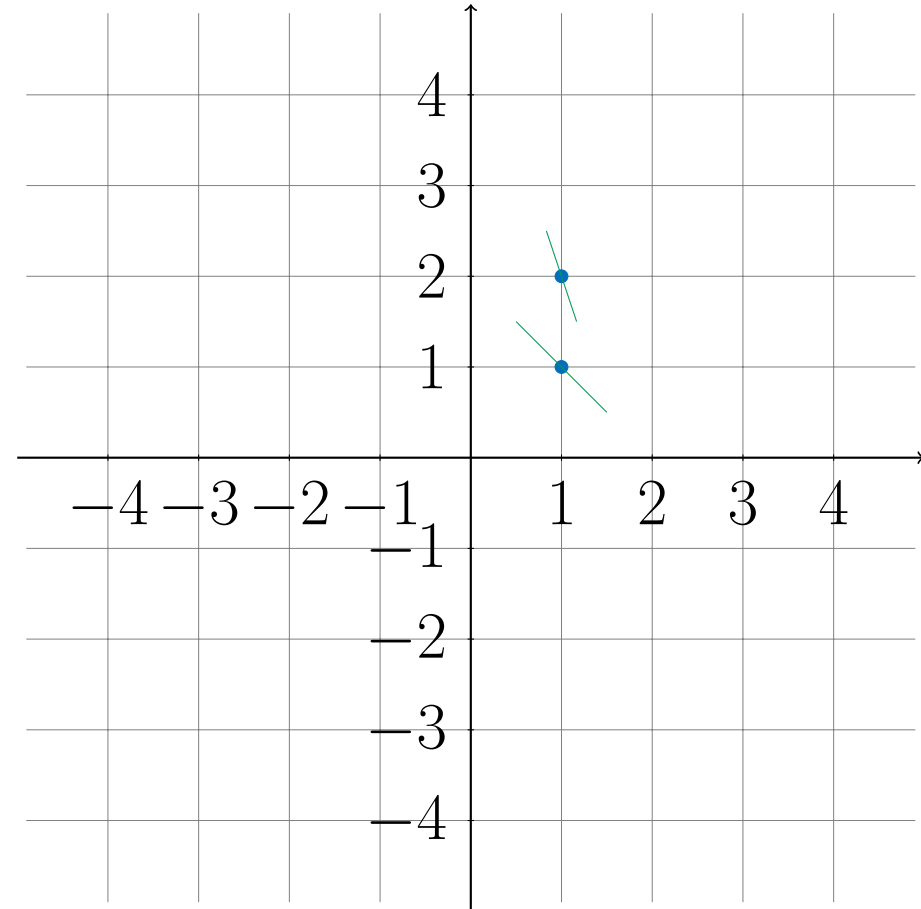
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$$\frac{dy}{dx} = 1 - 2 \cdot 2 = -3$$

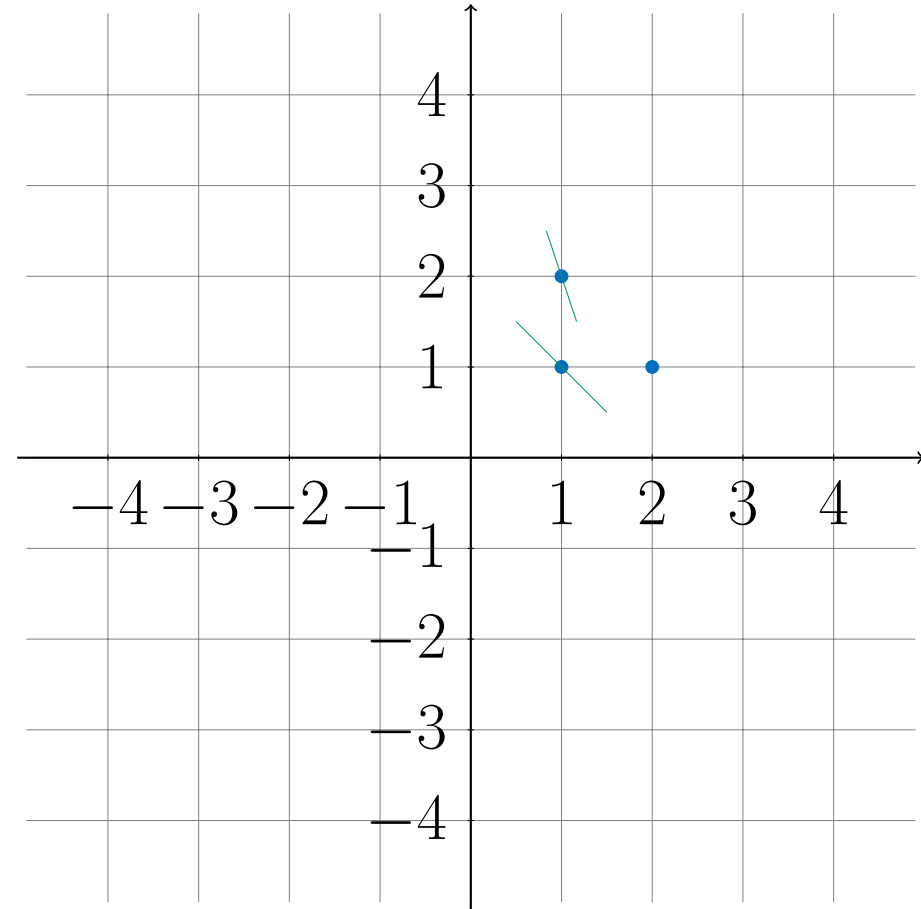


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$$x = 2 \text{ og } y = 1$$



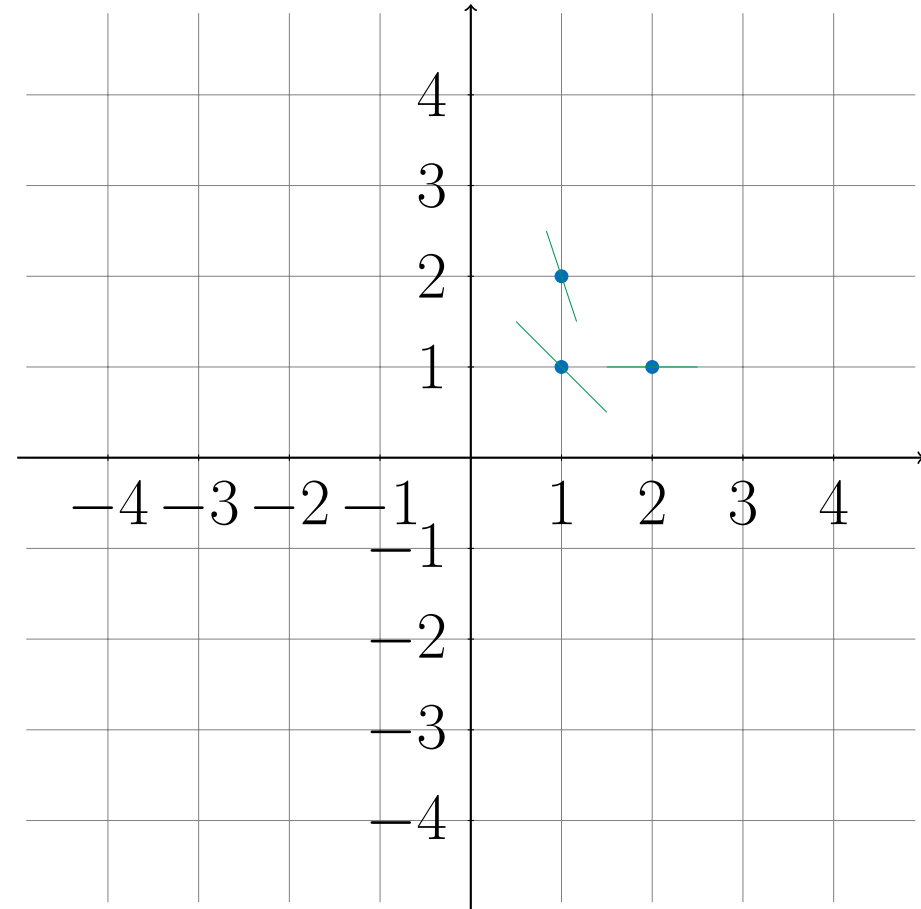
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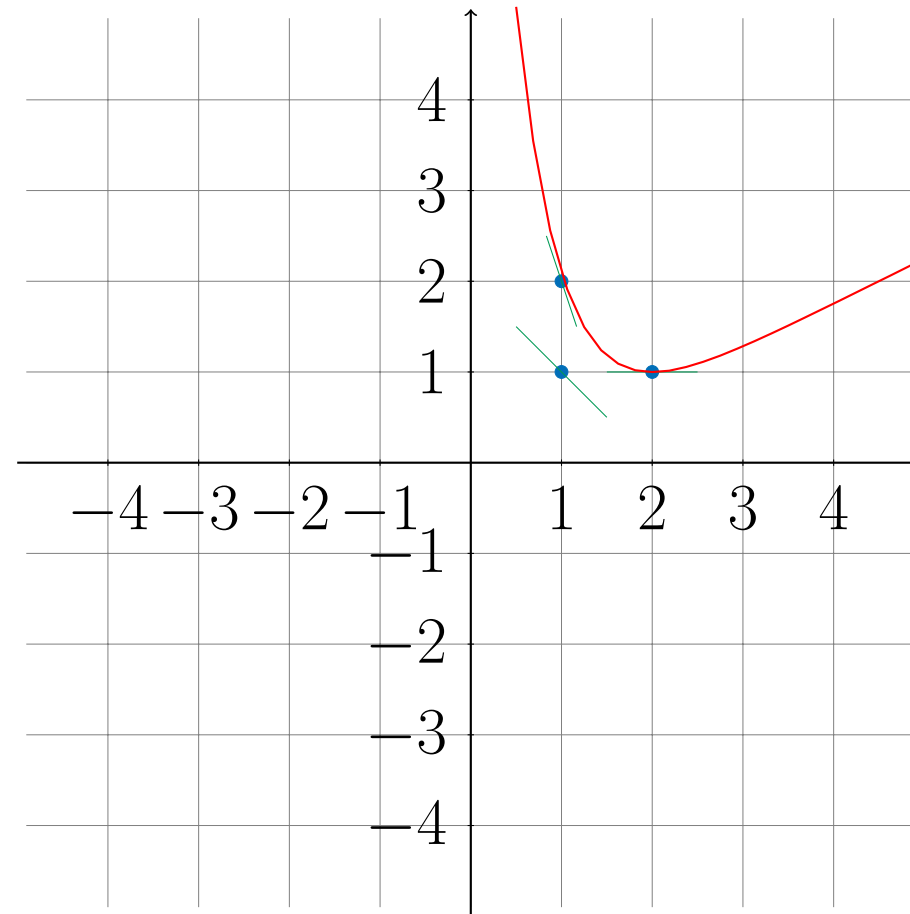
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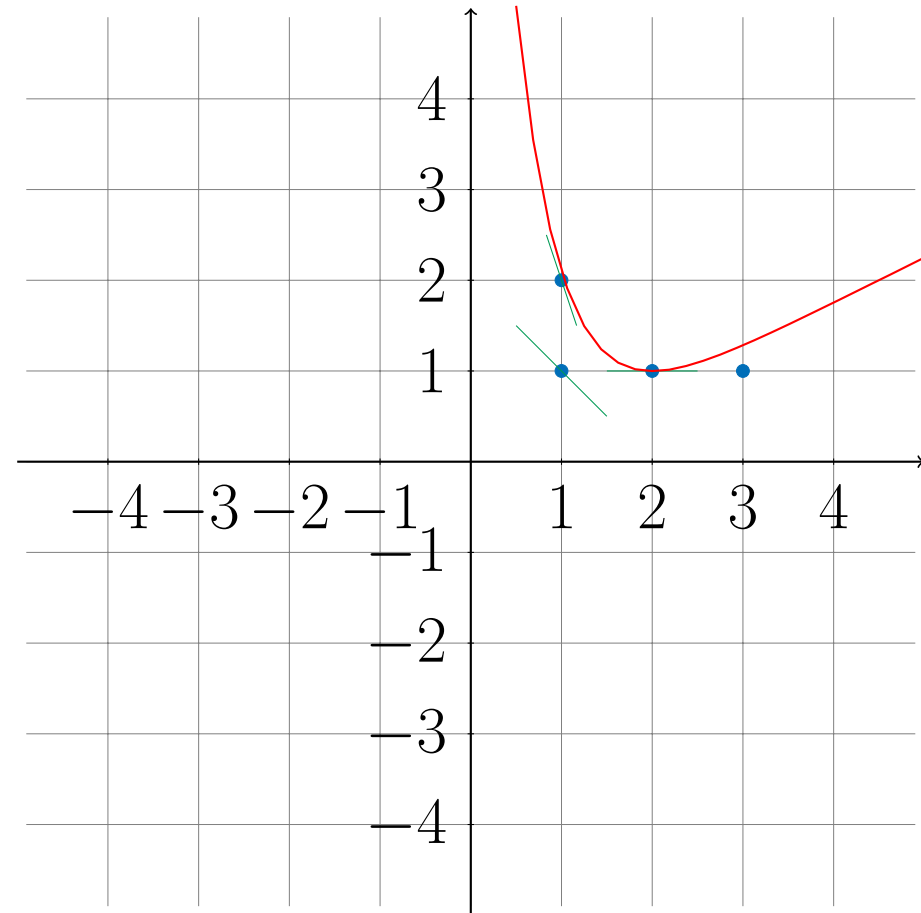


Differentialigning

$$\frac{dy}{dx} = f'(x) \text{ , hvis } f(x) = y$$

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$$x = 3 \text{ og } y = 1$$



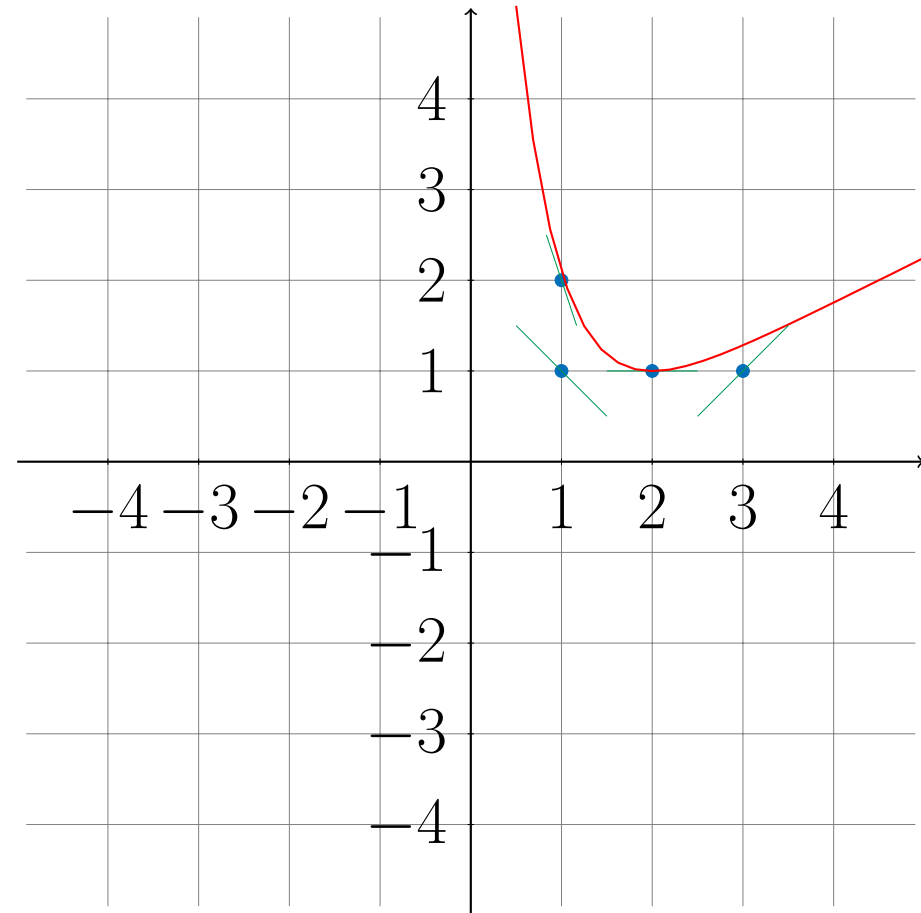
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