

Graf for eksponentiel funktion

3. marts 2017

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$$f(0) = 2 \cdot \left(\frac{1}{2}\right)^0 = 2 \cdot 1 = 2 \cdot 1 = 2$$

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$$f(3) = 2 \cdot \left(\frac{1}{2}\right)^3$$

$$a^{-x} = \frac{1}{a^x}$$

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$$\frac{b^x}{a} = \frac{b^x}{a^x}$$

Tegn grafen for funktionen $f(x) = 2 \cdot \frac{1}{2}^x$.

x	-3	-2	-1	0	1	2	3	4
$f(x)$	16	8	4	2	1	$\frac{1}{2}$		

$$f(-3) = 2 \cdot \left(\frac{1}{2}\right)^{-3} = 2 \cdot 2^3 = 2 \cdot 8 = 16$$

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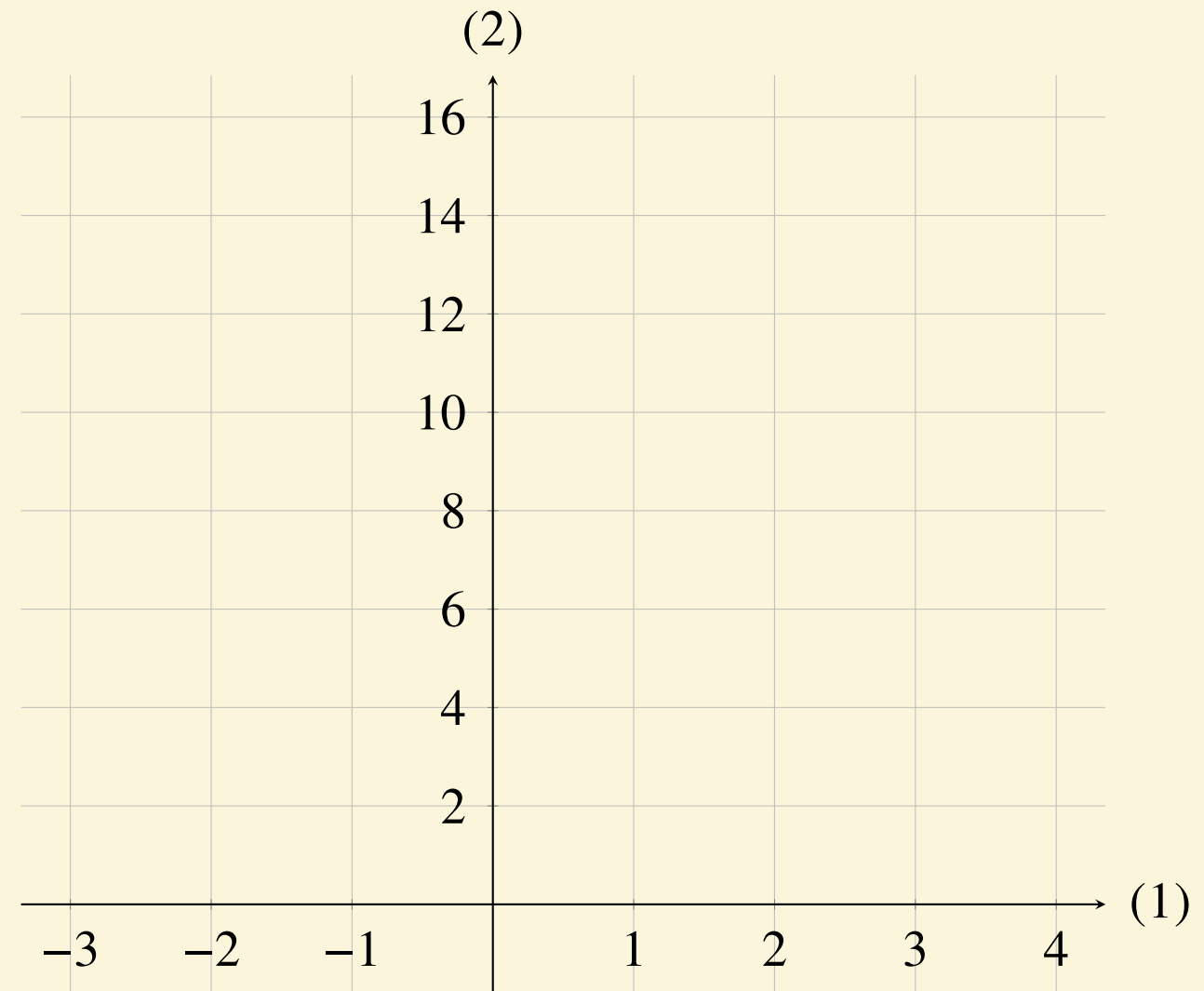
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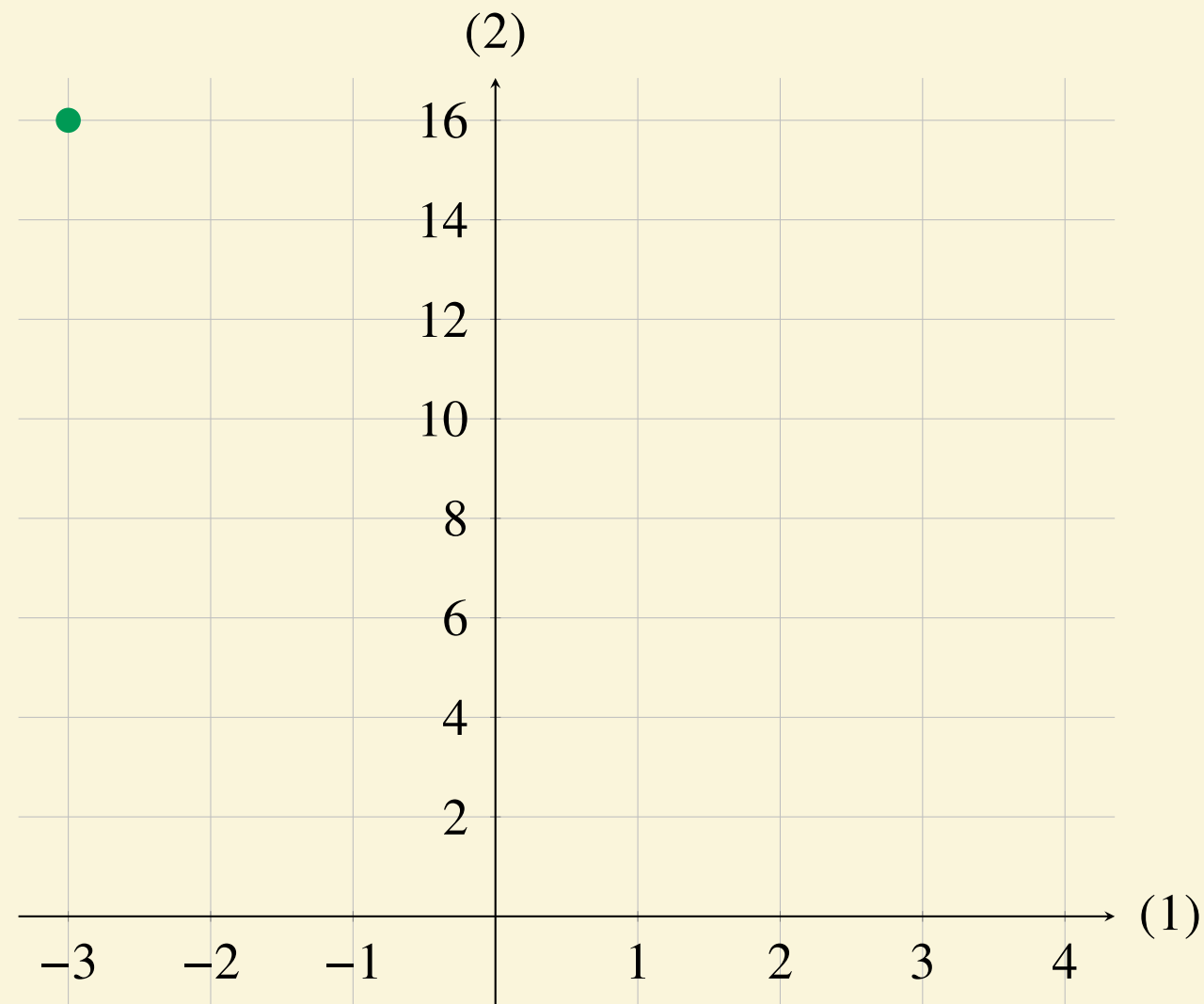
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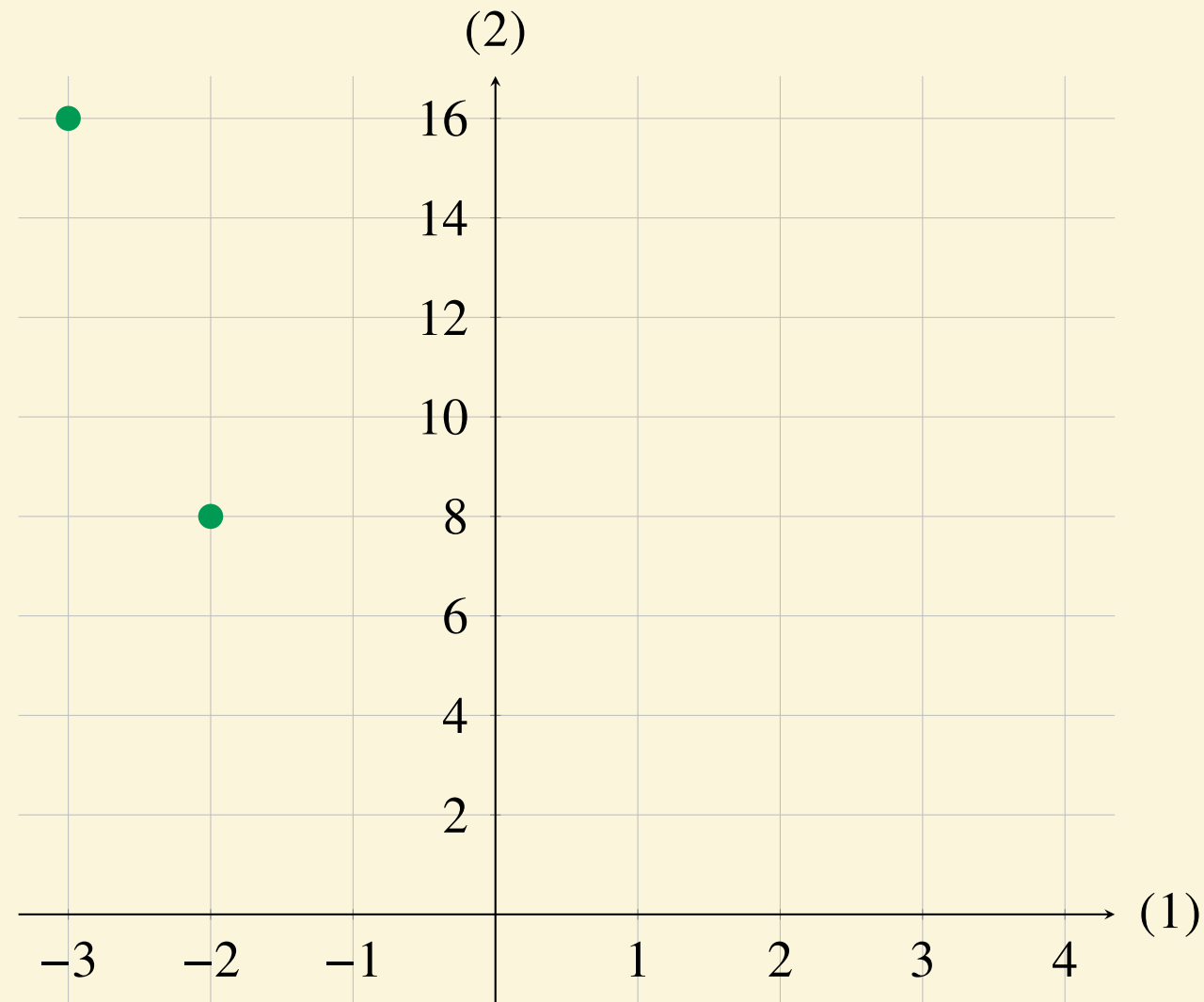
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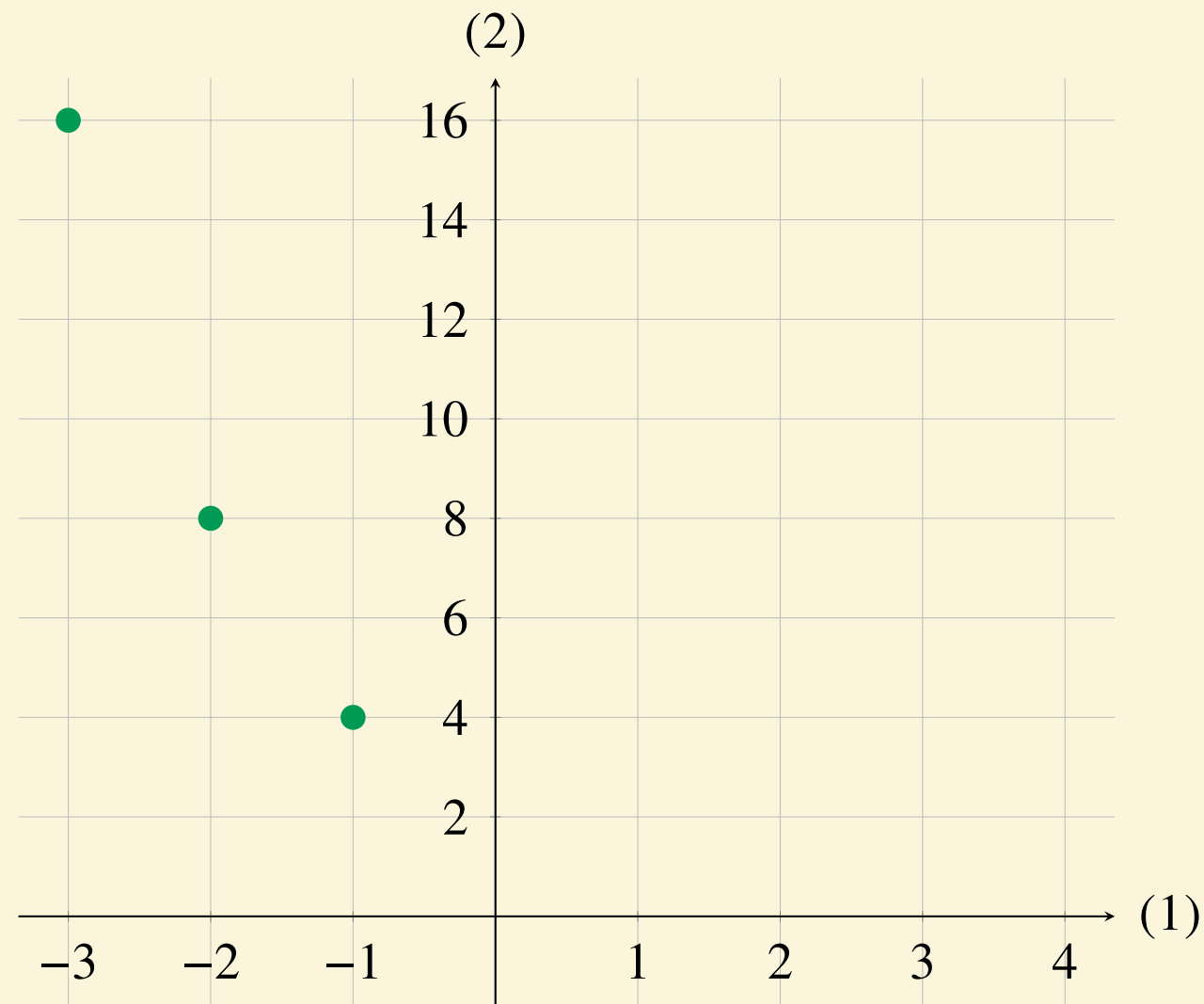
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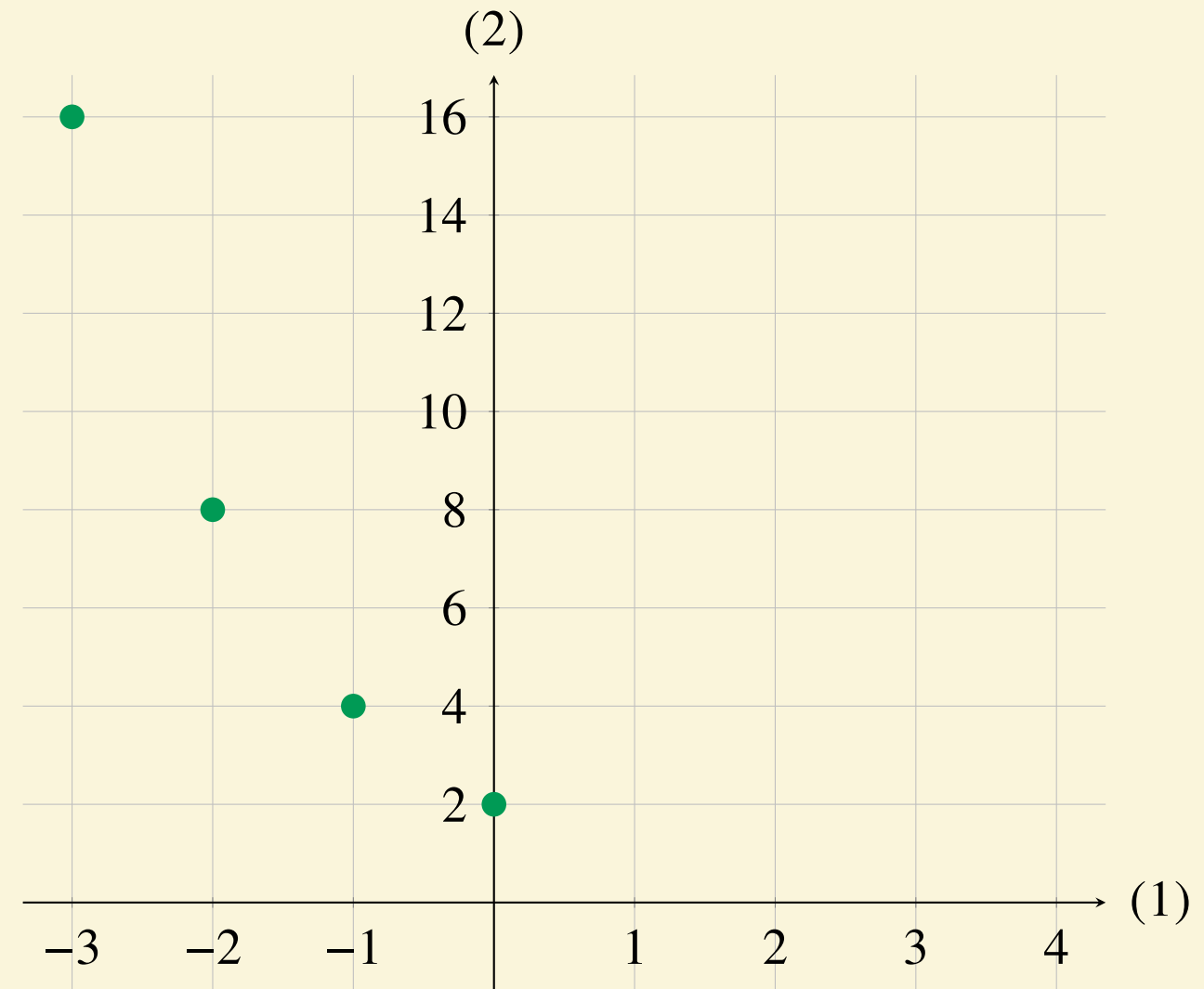
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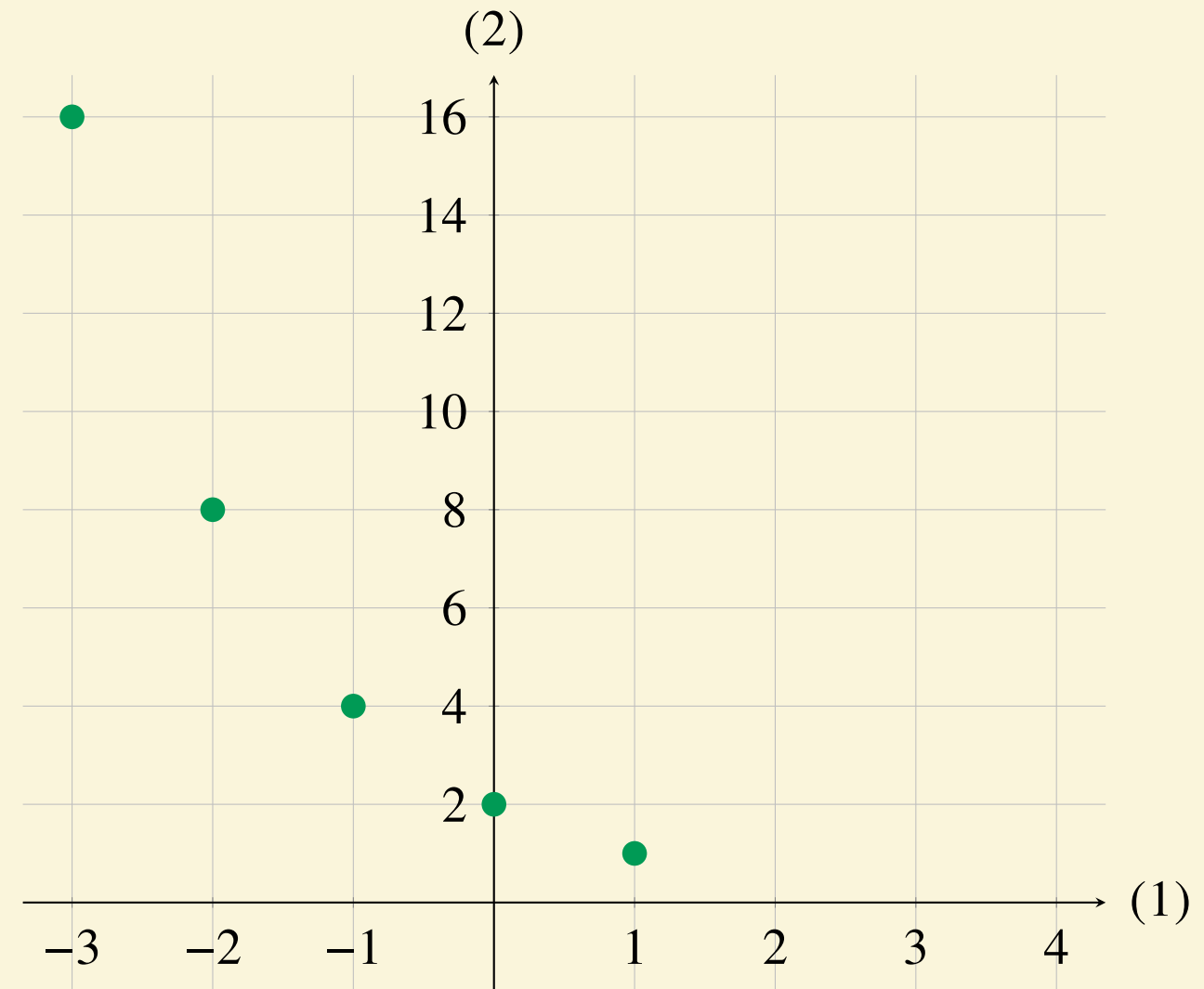
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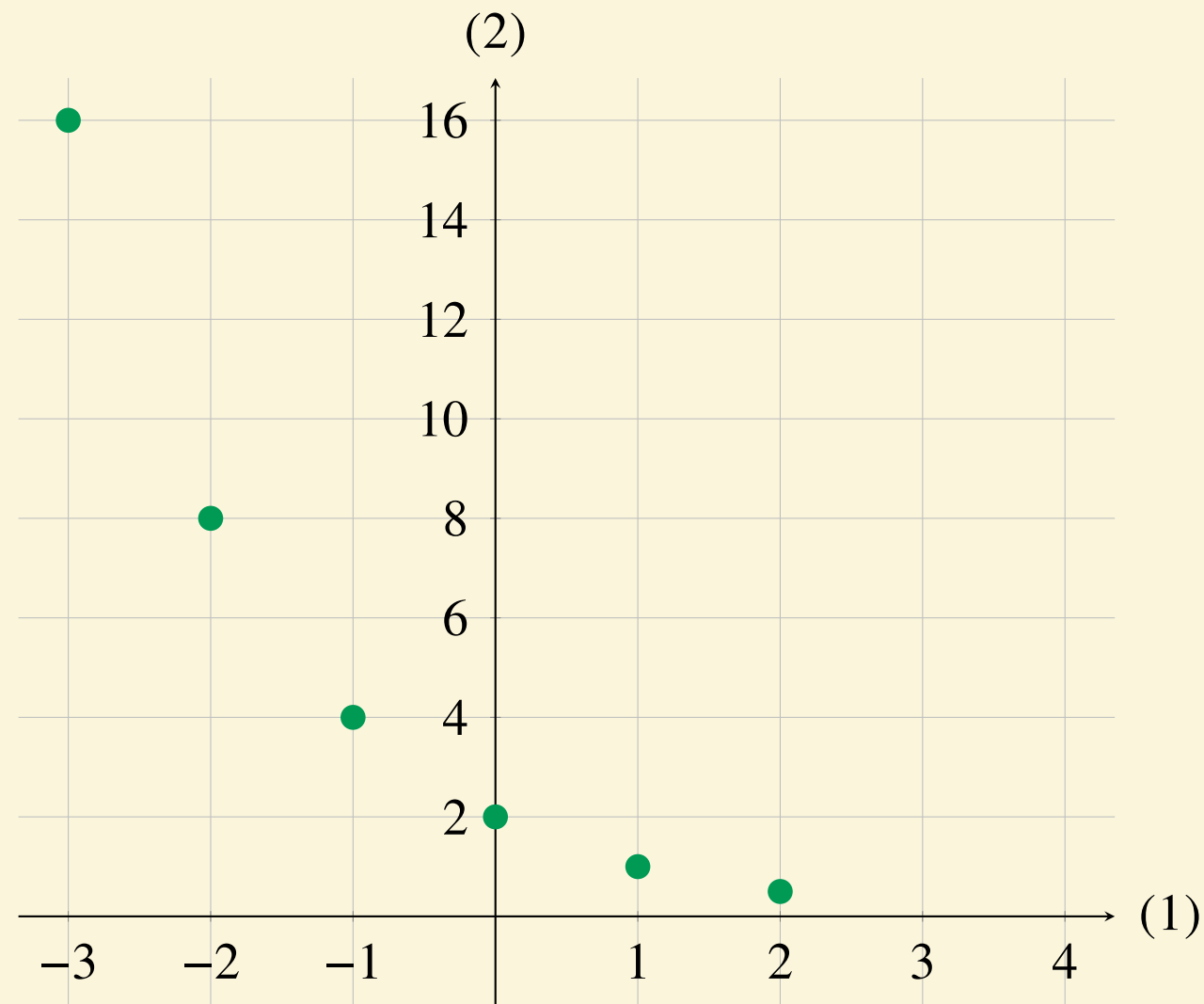
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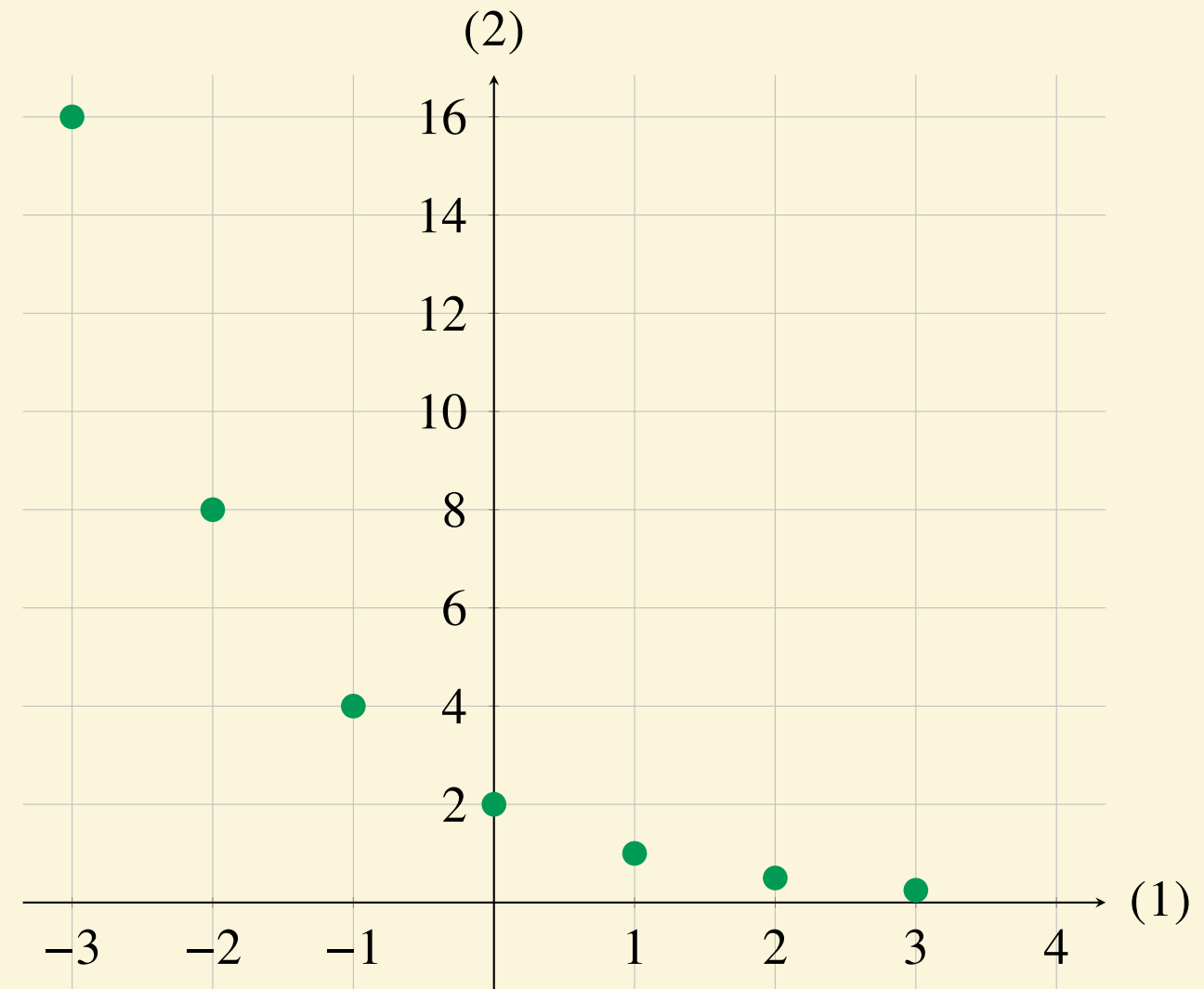
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$$f(2) = 2 \cdot \left(\frac{1}{2}\right)^2 = 2 \cdot \frac{1}{2^2} = 2 \cdot \frac{1}{4} = \frac{1}{2}$$

$$f(3) = 2 \cdot \left(\frac{1}{2}\right)^3 = 2 \cdot \frac{1}{2^3} = 2 \cdot \frac{1}{8} = \frac{1}{4}$$

$$f(4) = 2 \cdot \left(\frac{1}{2}\right)^4 = 2 \cdot \frac{1}{2^4} = 2 \cdot \frac{1}{16} = \frac{1}{8}$$



Tegn grafen for funktionen $f(x) = 2 \cdot \frac{1}{2}^x$.

x	-3	-2	-1	0	1	2	3	4
$f(x)$	16	8	4	2	1	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{8}$

$$f(-3) = 2 \cdot \left(\frac{1}{2}\right)^{-3} = 2 \cdot 2^3 = 2 \cdot 8 = 16$$

$$f(-2) = 2 \cdot \left(\frac{1}{2}\right)^{-2} = 2 \cdot 2^2 = 2 \cdot 4 = 8$$

$$f(-1) = 2 \cdot \left(\frac{1}{2}\right)^{-1} = 2 \cdot 2^1 = 2 \cdot 2 = 4$$

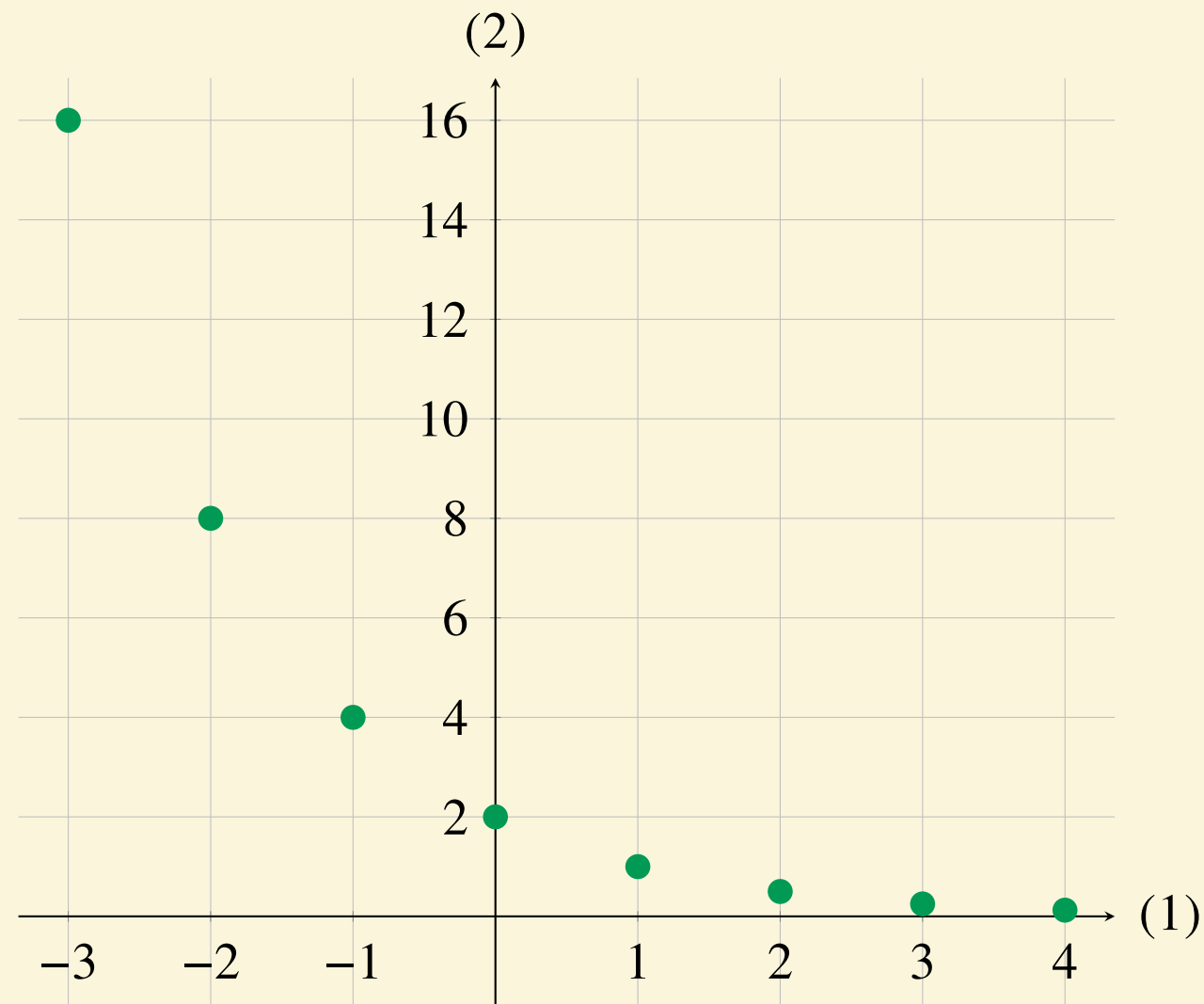
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