

# An aligned equation

(1)

(2)

(3)

(4)

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(1) 
$$\sum_{i=1}^n i$$

(2)

(3)

(4)

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$$(1) \quad \sum_{i=1}^n i = 1 + 2 + \cdots + (n - 1) + n$$

(2)

(3)

(4)

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$$(1) \quad \sum_{i=1}^n i = 1 + 2 + \cdots + (n - 1) + n$$

$$(2) \quad \quad \quad = 1 + n + 2 + (n - 1) + \cdots$$

(3)

(4)

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$$(1) \quad \sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n$$

$$(2) \quad = 1 + n + 2 + (n-1) + \cdots$$

$$(3) \quad = (1 + n) + \cdots + (1 + n)$$

$$(4)$$

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$$(1) \quad \sum_{i=1}^n i = 1 + 2 + \cdots + (n-1) + n$$

$$(2) \quad = 1 + n + 2 + (n-1) + \cdots$$

$$(3) \quad = \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}}$$

$$(4)$$

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$$\begin{aligned} (1) \quad \sum_{i=1}^n i &= 1 + 2 + \cdots + (n-1) + n \\ (2) \quad &= 1 + n + 2 + (n-1) + \cdots \\ (3) \quad &= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \\ (4) \quad &= \underline{(1+n)} \end{aligned}$$

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$$\begin{aligned} (1) \quad \sum_{i=1}^n i &= 1 + 2 + \cdots + (n-1) + n \\ (2) \quad &= 1 + n + 2 + (n-1) + \cdots \\ (3) \quad &= \underbrace{(1+n) + \cdots + (1+n)}_{\times \frac{n}{2}} \\ (4) \quad &= \frac{(1+n) \cdot n}{2} \end{aligned}$$