Proof That the Sum of the First Four Numbers Equals 10

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1 Question

We want to prove that the sum of the first four natural numbers equals 10:

$$1 + 2 + 3 + 4 = 10$$

2 Proof

We compute the sum step by step:

$$1+2+3+4=(1+2)+3+4$$
 (Group the first two terms)
= $3+3+4$ (Compute $1+2=3$)
= $(3+3)+4$ (Group the next two terms)
= $6+4$ (Compute $3+3=6$)
= 10 (Compute $6+4=10$)

3 Conclusion

Thus, we have shown through step-by-step addition that:

$$1 + 2 + 3 + 4 = 10$$