

Homework 1

Reasoning is more important than the final answer.
Justify every response.

textbook

section 1 problems 2, 4, 29, 34.

additional

True or False

1. $-1 \in \mathbb{N}$
2. $1 \in \mathbb{Q}$
3. $\frac{1}{2} \in \mathbb{N}$

Evaluate

4. $(4 + 6) \div 2$
5. $2 \times (4 + 6)$

State the property used and whether it holds.

6. $(\text{coffee} + \text{milk}) + \text{sugar} = \text{coffee} + (\text{milk} + \text{sugar})$
7. $(1 + \pi) + 3 = 1 + (\pi + 3)$
8. $3 \times (10001 + 5.67) = (10001 + 5.67) \times 3$
9. $3 \times (10001 \div 5.67) = (10001 \div 5.67) \times 3$
10. $(1 + 2) \div 3 = 1 + (2 \div 3)$