

T101 Review of Properties

For each of the following, identify the property which is illustrated:

1. $(12 + 6) + 11 = 12 + (6 + 11)$
2. $1 \times \frac{3}{4} = \frac{3}{4} = \frac{3}{4} \times 1$
3. $2 + ^{-}2 = 0$
4. If a and b are rational numbers, $b \neq 0$, then $a \div b$ is a rational number.
5. $[3(x + 3)](x + 2) = 3[(x + 3)(x + 2)]$
6. $3 + (a + b) = (a + b) + 3$
7. $\frac{3}{4} \times \frac{4}{3} = 1$
8. $(7 \times 5) \times 3 = 3 \times (7 \times 5)$
9. If a and b are whole numbers, then $a + b$ is a whole number.
10. $4 \times 3 = 3 \times 4$
11. If a and b are integers, then $a - b$ is an integer.
12. $0 + ^{-}12 = ^{-}12 = ^{-}12 + 0$
13. $8 + 0 = 0 + 8 = 8$
14. $4 - 6 \in \mathbb{I}$
15. $2 \times (3 + 4) = 2 \times 3 + 2 \times 4$
16. $5 \times (3 + 9) = (3 + 9) \times 5$
17. If a and b are whole numbers, then $a \times b$ is a whole number.
18. $5 \times 1 = 1 \times 5$