

Which of the following are true?

$$-\left((x - y) + (x - z)\right) \equiv -(x - y) - (x - z)$$

$$-\left((x - y) + (x - z)\right) \cdot z \equiv -(x - y) - (x - z) \cdot z$$

$$\sim (p \wedge q) \equiv \sim p \vee \sim q$$

$$\sim (p \wedge q) \wedge r \equiv \sim p \vee \sim q \wedge r$$

Which of the following are true?

$$(x + y) + z = x + (y + z)$$

$$(x - y) + z = x - (y + z)$$

$$(p \vee q) \vee r \equiv p \vee (q \vee r)$$

$$(p \vee q) \wedge r \equiv p \vee (q \wedge r)$$