

$$\Omega = \{0, 1\}$$

$$0 + 0 = 0$$

$$0 + 1 = 1$$

$$1 + 0 = 1$$

$$1 + 1 = 0$$

$$0 \cdot 0 = 0$$

$$0 \cdot 1 = 0$$

$$1 \cdot 0 = 0$$

$$1 \cdot 1 = 1$$

$$(a+b)+c$$

$$= a + (b+c)$$

$$(a \cdot b) \cdot c$$

$$= a \cdot (b \cdot c)$$

$$a \cdot (b+c)$$

$$\Rightarrow a \cdot b + a \cdot c$$

$$2.3. \textcircled{+c} - 3 - d - (-(-4 - b)) - \textcircled{c} - (d - 2)$$

$$= -3 - d - (-(-4 - b)) - (d - 2)$$

$$= \underbrace{-3 - d}_{-1} - \underbrace{(+4 + b)}_{+4} = \underbrace{d}_{+1} \underbrace{+ 2}_{+2}$$

$$= \underbrace{-1}_{-1} - 2d - \underbrace{4}_{-4} - b$$

$$= -5 - b - 2d$$

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