

Ejercicios básicos de expresiones

Calcula el resultado de estas expresiones:

1. Aritméticas:

$$3 * 5 - 4 / 2 = 13$$

$$3 - (4 * 5) ^ 2 / 4 = 103$$

$$3 ^ 2 - 5 * 2 = -1$$

$$7 - 4 * 2 - 5 * 2 = -11$$

2. Relacionales:

$$5 + 4 < 7 + 8 = \text{Verdadero}$$

$$4 < 5 * 4 / 2 - 7 = \text{Verdadero}$$

$$3 * 4 + 3 > 1 - 2 ^ 1 = \text{Verdadero}$$

$$2 * 4 ^ 2 > 2 - 1 = \text{Verdadero}$$

$$(3 * 3) + 4 != 1 * 4 = \text{Verdadero}$$

3. Lógico-relacionales:

$$\text{NOT } 3 \leq 3 \text{ AND } ((2 ^ 2 * 3) / 2 + 1) < 10 = \text{Falso}$$

Haz la tabla de verdad de la expresión (a AND b) OR (NOT c):

| a | b | c | a AND b | NOT c | (a AND b) OR (NOT c) |
|---|---|---|---------|-------|----------------------|
| 0 | 0 | 0 | 0 | 1 | 1 |
| 0 | 0 | 1 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 | 1 | 1 |
| 0 | 1 | 1 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 1 | 1 |
| 1 | 0 | 1 | 0 | 0 | 0 |
| 1 | 1 | 0 | 1 | 1 | 1 |
| 1 | 1 | 1 | 1 | 0 | 1 |