

1. Sendo **S = 10**, **A = 10**, **B = 20**, **C = 35**, **D = 15.0** e **E = 3.0**, qual será o valor final de S após a execução de cada uma das expressões?

EXPRESSÃO	RESPOSTA
$S = A + C \times 2 - B / A - (A + B)$	48
$S = C \times 2 + A / B - (B + A)$	40.5
$S = A + C \times 2 - (B / A + A + B)$	48
$S = A + C \times 2 - B / A - (A + B)$	48
$S = C \times 2 + B / A - (A + B)$	42
$S = C \times 2 + A / B - (A + B)$	40.5
$S = A + C \times 2 - B / A - (A + B)$	48
$S = C \times 2 + B / A - (A + B)$	42
$S = C * 2 + B / A - (A + B) * 2 ** E$	-168
$S = A + C \times 2 - (B / A + A + B)$	48
$S = A + C \times 2 - B / A - (A + B)$	48

2. Complete as tabelas abaixo:

AND (E)			OR (OU)			NOT (NEGAÇÃO)	
A	B	S	A	B	S	A	S
V	V	V	V	V	V	V	F
V	F	F	V	F	V	F	V
F	V	F	F	V	V		
F	F	F	F	F	F		

3. Sendo **A = True**, **B = False** e **C = False**, resolva:

EXPRESSÃO	RESPOSTA
$S = A \text{ or } B \text{ or } C$	True
$S = \text{not } A \text{ and } B \text{ or } C$	False
$S = \text{not } (A \text{ and } B) \text{ and } C$	False
$S = \text{not } (\text{not } A \text{ or } \text{not } C)$	<u>False</u>

4. Sendo **A = 10**, **B = 20** e **C = 30**, resolva:

EXPRESSÃO	RESPOSTA
$S = A > B$	False
$S = (B * 2 + A) >= B + C$	True
$S = A + B != C$	False
$S = B <= C$	True
$S = A * 2 == B$	True
$S = (C - A) / 2 >= B$	<u>False</u>
$S = (A ** 2) + (B ** 2) > (C ** 2)$	False
$S = (A + B) * (A - B) != (C ** 2)$	True
$S = (A * B) + (A * C) >= (B * C)$	False
$S = (A ** 3) + (B ** 3) == (C ** 3)$	False
$S = (A ** 2) + (B ** 2) - (C ** 2) >= 0$	False
$S = (A + B) * (B + C) > (A * C)$	True
$S = (A ** 2) + (B ** 2) + (C ** 2) != (A * B * C)$	True
$S = (A * B * C) > (A + B + C)$	True
$S = (A ** 2) * (B ** 2) != (C ** 4)$	True
$S = (A * B * C) \% 2 == 0$	True

5. Informe a precedência:

OPERADOR	PRIORIDADE
>, <, <=, >=, ==, !=	2
AND, OR, NOT	3
+, -, /, *, %	1

6. Sendo **A = 10**, **B = 20** e **C = 30**, resolva:

EXPRESSÃO	RESPOSTA
$S = A < B \text{ and } A + B > A + C / B$	True
$S = \text{not } (A == B \text{ and } A >= C) \text{ or } C == A + B$	True
$S = \text{not False or } A ** 2 / 3 < C - B \% 7$	True
$S = A > B \text{ and } C < B \text{ and not } (A == B)$	False
$S = A > B \text{ or } C == B \text{ or not } (A != B)$	False
$S = A <= B \text{ and } A + B > C / A$	True
$S = \text{not } (A != B \text{ and } A < C) \text{ and } C == A * B$	False
$S = \text{not True or } A ** 2 / 3 < C + B \% 7$	True
$S = A > B \text{ or } C < B \text{ and not } (A == B)$	False
$S = A == B \text{ or } C != B \text{ or not } (A > B)$	True
$S = A > B \text{ and } A + B > A + C / A$	False
$S = \text{not } (A != B \text{ or } A < C) \text{ and } C == A + B$	False
$S = \text{not True or } A ** 2 / 3 < C - B \% 7$	False
$S = A > B \text{ and } C < B \text{ or not } (A == B)$	True