Do these manually & in python:

① ((23 > 42) and (36 > 12)) or (39 <= 23)

= (false, and true) or (39 <= 23)

= false, or (39 <= 23)

= false or false

= false

(2) result = (True or False) and (not True)

result = (True or False) and False

result = True and False

result = False

③ is_valid = 10 > 5 and 2+3*2 != 10 or not (5<2)

is_valid = 10>5 and 2+3*2!=10 or not false ✓

is_valid = 10>5 and 2+3*2!=10 or true ✓

is_valid = true and false or true

true 8!=10

is_valid = false or true

is_valid = true

Evaluate the expressions and show it

2+3*2 != 10

2+6 != 10

8 != 10

true

④ check = not (15 // 3 == 5 and 7 % 2 == 0) or 2 ** 3 < 10

check = not (true and false) or 2 ** 3 < 10

check = not (false) or 2 ** 3 < 10

check = true or 2 ** 3 < 10

check = true or true

check = true ✓

↳ Evaluate the expression & show it

2 x 2 x 2 < 10

8 < 10 True