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ENGR 102-413

a = True

b = True

c = False

1. **a and b and c**

True & True & False

False

1. **a or b or c**

True | True | False

True

**3) (not (a and not b) or (not c and b)) and ((not b) or (not a and b and not c) or (a and not b))**

**(**True | True) & (False | False | False)

True False

False

**4) (not ((b or not c) and (not a or not c))) or (not (c or not (b and c))) or (a and not c) and (not a or (a and b and c) or (a and ((b and not c) or (not b))))**

(not(T or T) and (F or T))) or (not(F or not(T and F))) or (T and T) and (F or (T and T and F) or (T and ((T and T) or (f))))

(F and T) or (not(F or T)) or (T) and (F or (F) or (T and ((T) or (F))))

F or (F or T and (F or F or (T and T)))

F or (F or T and (T))

F or T

True