$$cl(A \cap B) = cl(A) \wedge cl(B)$$

is false.

$$kel A = (o_1!)$$

$$B = (1, 2)$$

flew A \cap B = 4
and cl(A \cap B) = 4
But cl A = Co_1!]

$$cl B = [1, 2]$$

and cl(A \cap C B = E!].