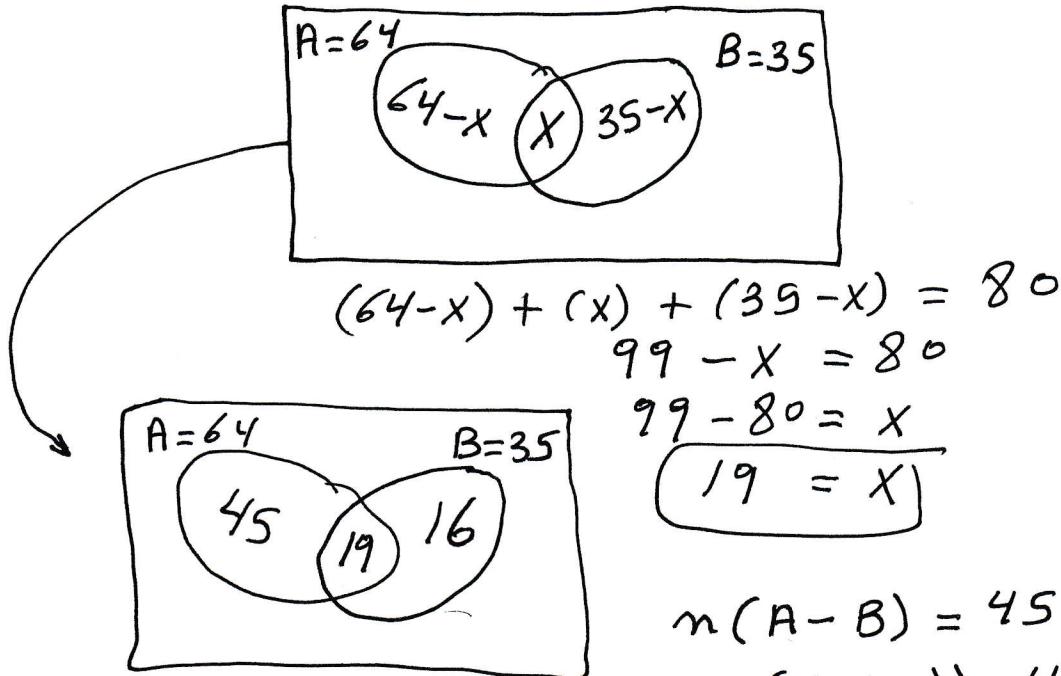


Sec 2.3, #15

$$A = 64, \quad B = 35, \quad A \cup B = 80, \\ A \cap B = ? = X$$



$$n(A) = 64$$

$$n(A \text{ only}) = 45$$

$$n(A - B) = 45$$

$$n(A \cap B') = 45$$

$$n(B - A) = 35$$

$$n(B \cap A') = 35$$

Method 2

$$A \cup B = A + B - A \cap B$$

$$80 = 64 + 35 - X$$

$$X = 19$$