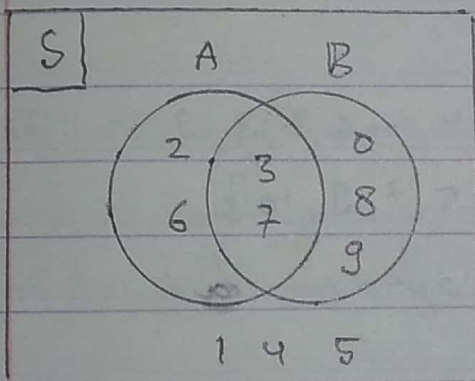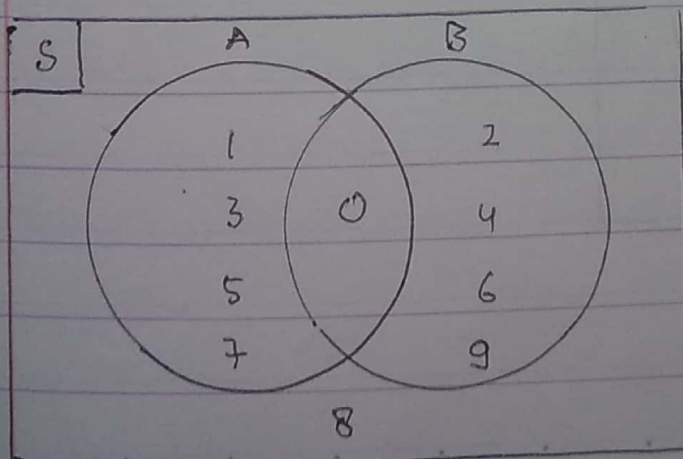Nama = Faiz Hidayat

NIM = 202420026

Kelas = 1F2A

1. Gambar dengan diagram Venn himpunan-
himpunan berikut.

a. $S = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9\}$, $A = \{2, 3, 6, 7\}$
   $B = \{0, 3, 7, 8, 9\}$

b. $S = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9\}$, $A = \{0, 1, 3, 5, 7\}$
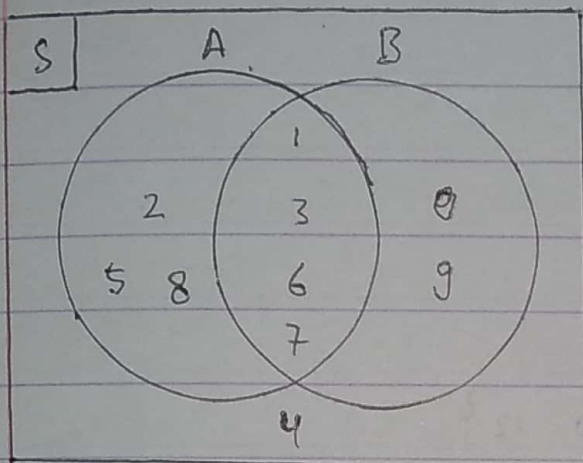 $B = \{0, 2, 4, 6, 9\}$

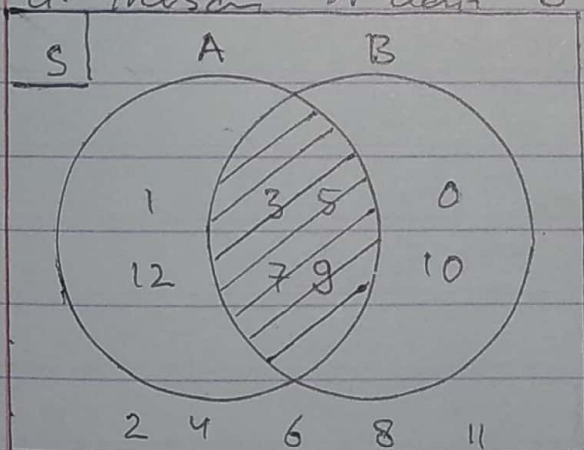c. $S = \{0,1,2,3,4,5,6,7,8,9\}$, $A = \{1,2,3,5,6,7,8\}$

$B = \{0,1,3,6,7,9\}$

2. Jika himpunan $S = \{0,1,2,3,4,5,6,7,8,9,10,11,12\}$

$A = \{1,3,5,7,9,12\}$, $B = \{0,3,5,7,9,10\}$

a. Irisan A dan B

$A \cap B = \{3,5,7,9\}$

b. Gabungan A dan B

S | A   B
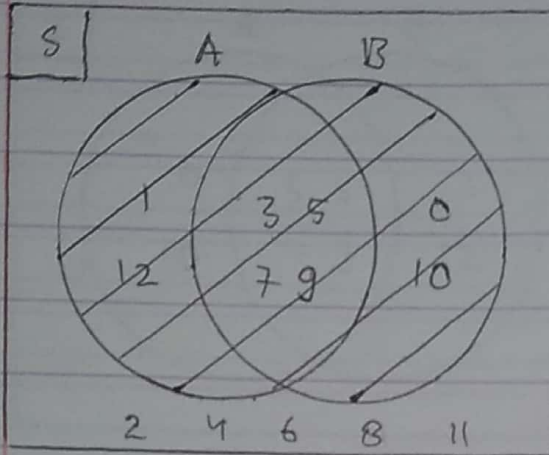
1   3 5   0

12   7 9   10

2   4   6   8   11

$A \cup B = \{0, 1, 3, 5, 7, 9, 10, 12\}$

c. Komplemen A dan B

S | A   B

1   3 5   0

12   7 9   10
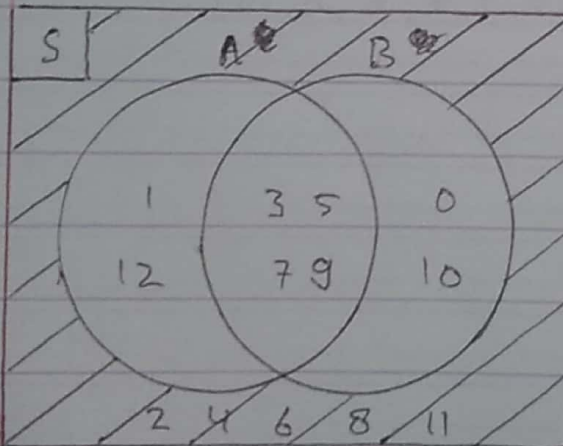
2   4   6   8   11

$(A \cup B)^c = \{2, 4, 6, 8, 11\}$
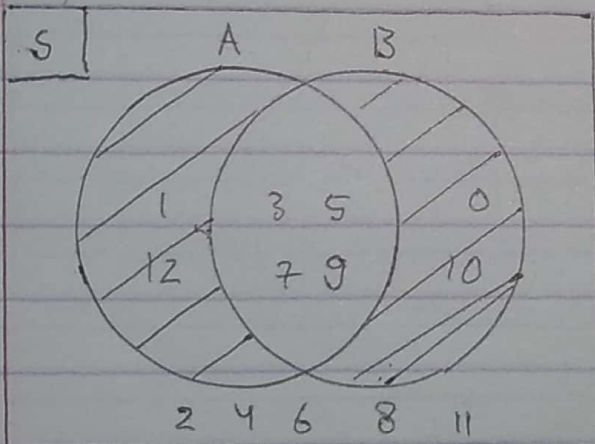
d. Selisih A dan B

$$A - B = \{1, 12\}$$

e. Beda setengkup A dan B

$$A \oplus B = \{0, 1, 10, 12\}$$