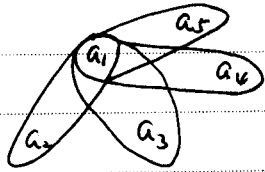


⇒



⇒ We have only to count the cases of E_i, G_i and $F_{j\ell}$. ⇒ $6C_1 \times 5C_1 = 6 \cdot 5 = 30$.

$\{ E_i, G_i, F_{j\ell}, F_{jn}, F_{jn}, F_{jk} \}$.

$\{ G_1, G_2, G_3, F_{us}, F_{ue}, F_{us} \}$

⇒ $6C_2 = 20 = \# \{ G_i, G_j, G_k, F_{em}, F_{en}, F_{en} \}$

Now we will show why other cases are excluded.

① 2 E_i 's.

$\{ E_1, E_2, \dots \}$ No chance for G_i since G_i meets E_j if $i \neq j$.

⇒ $\{ E_1, E_2, F, F, F, F \}$.

As we saw above, $\{ F_{jn_1}, F_{jn_2}, F_{jn_3}, F_{jn_4} \}$ is possible.

⇒ $j=3, \{ n_1, n_2, n_3, n_4 \} = \{ 4, 5, 6 \}$ impossible.

② 4 E_i 's.

Again no chance for G_i .

$\{ E_1, E_2, E_3, E_4, F_{us}, ? \}$ is not possible.

③ 2 G_i 's

By the same reason, no chance for E_i .

$\{ G_1, G_2, F, \dots \}$ is not possible as in the case ①.