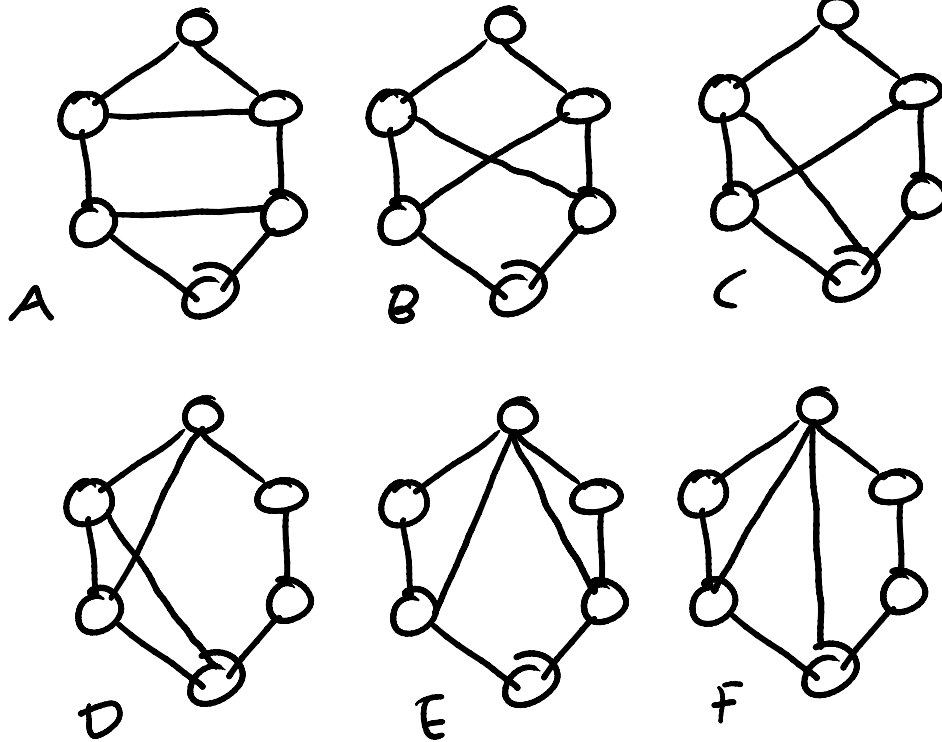


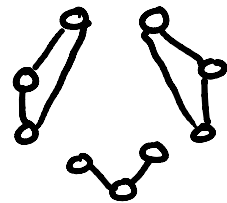
①



We note  $\{A, B, C, D\}$  and  $\{E, F\}$  have different degree sequence  $\Rightarrow$  they must be in separate isomorphic classes

First consider  $\{E, F\}$

There exists a decomposition on  $E$  that has two triangles



as no such decomposition exists on  $F$ , since the two  $C_3 \subseteq F$  share an edge

$\rightarrow E$  and  $F$  are in separate isomorphism classes

Now consider  $\{A, B, C, D\}$

A: is the only one with a decomposition containing two triangles

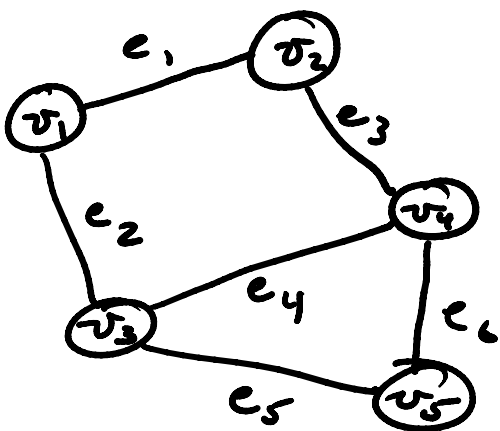
B: is the only one containing no triangles

C: is the only one containing one triangle

D: has two triangles, but no decomposition containing two triangles

As each of  $\{A, B, C, D\}$  has unique topological properties, each must also be in a unique iso. class  $\square$

②



$$\begin{matrix} & v_1 & v_2 & v_3 & v_4 & v_5 \\ \begin{matrix} v_1 \\ v_2 \\ v_3 \\ v_4 \\ v_5 \end{matrix} & \begin{bmatrix} 0 & 1 & 1 & 0 & 0 \\ 1 & 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 0 & 1 \\ 0 & 0 & 1 & 1 & 0 \end{bmatrix} \end{matrix}$$