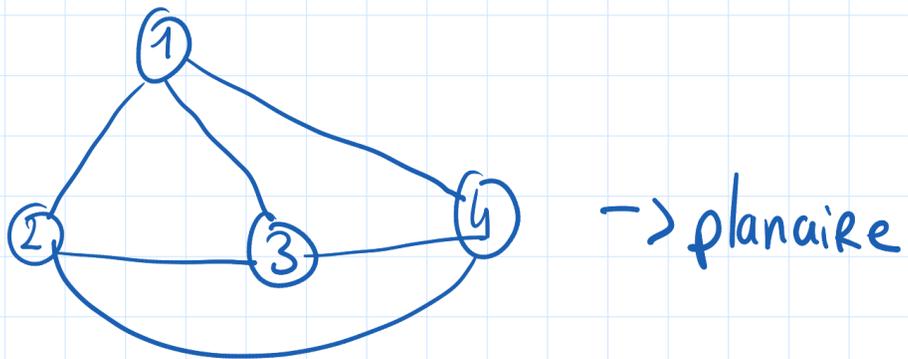


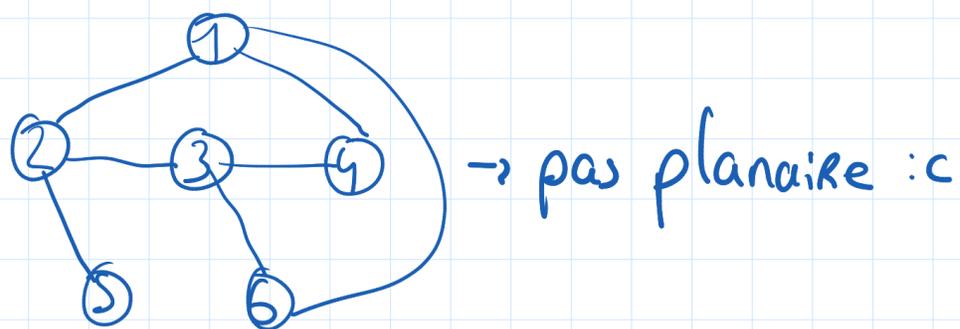
TD cours 2:

① Planaire ou pas ?

a) Soit $G = \{V, E\}$, $V = \{1, 2, 3, 4\}$, $E = \{\{1, 2\}, \{1, 3\}, \{1, 4\}, \{2, 3\}, \{2, 4\}, \{3, 4\}\}$



b) $V = \{1, 2, 3, 4, 5, 6\}$, $E = \{\{1, 2\}, \{1, 4\}, \{1, 6\}, \{2, 3\}, \{2, 5\}, \{3, 4\}, \{3, 6\}, \{4, 5\}, \{5, 6\}\}$



② Propriété de petits graphes

Soit $V = \{A, B, \dots, G\}$

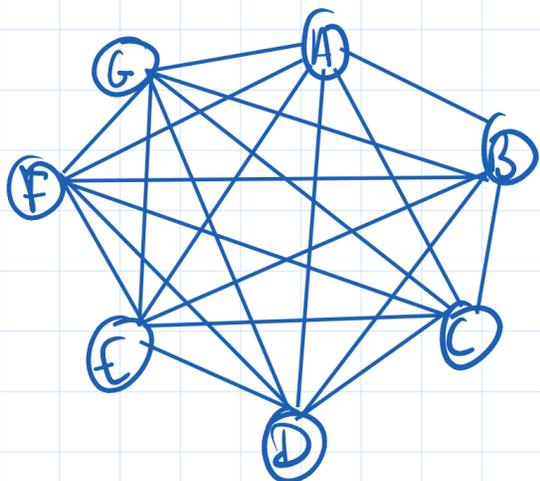
$E = \{\{A, B\}, \{B, C\}, \{C, D\}, \{D, E\}, \{E, F\}, \{F, G\}\}$



Degré: $A, G: 1$ $B \dots F: 2$

Distance min: 1, max: 6

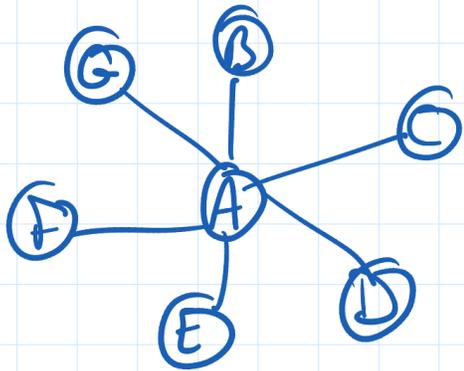
CLIQUE $\{V, \{\{A, B\}, \{A, C\}, \dots, \{A, G\}, \{B, C\}, \dots, \{B, G\}, \dots\}\}$



Degré: 6

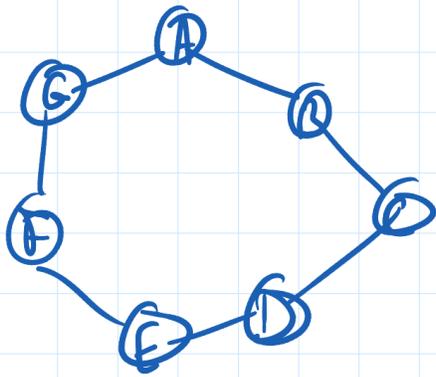
Distance: 1

STAR: $(V, \{\{A,B\}, \{A,C\}, \{A,D\}, \{A,E\}, \{A,F\}, \{A,G\}\})$



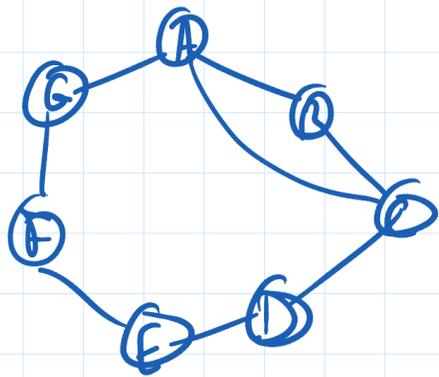
Degré A: 6, autres: 1 | Centralité P: $\frac{3}{8}$
 Distance A: 1, autres 1 à 2 | " 1:

CIRCLE: $(V, \{\{G,A\}, \{A,B\}, \{B,C\}, \dots, \{F,G\}\})$



Degré: 2
 distance min: 1
 distance max: 3

CIRCLE: $(V, \{\{G,A\}, \{A,B\}, \{B,C\}, \dots, \{F,G\}\})$
 $\{A,D\}$



Degré: 2
 distance min: 1
 distance max: 3