Mathématiques discrètes
Solutions TP 10

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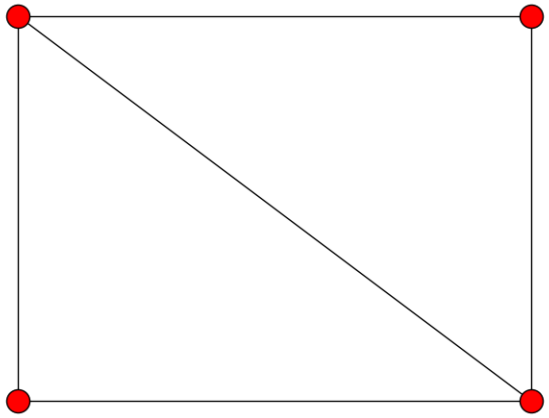
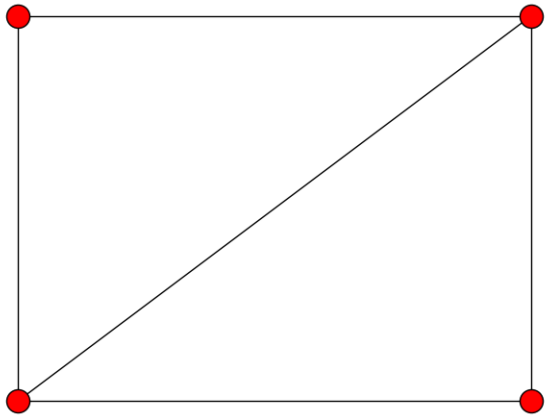
Exercice 1

Voir solutions TP 8 et TP 9.

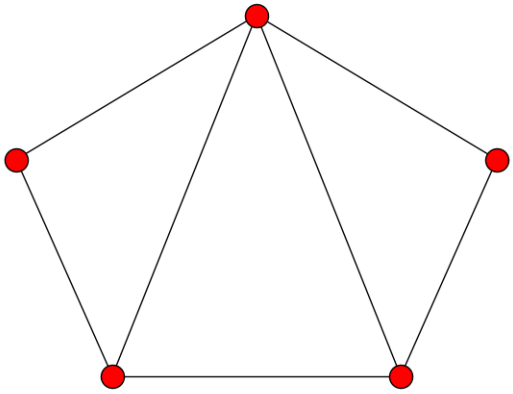
Exercice 2.1

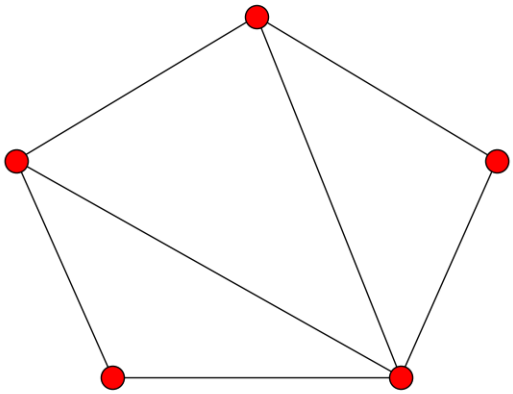
Toutes les triangularisations possibles pour un carré. (Oui, on dirait des rectangles mais c'est des carrés)

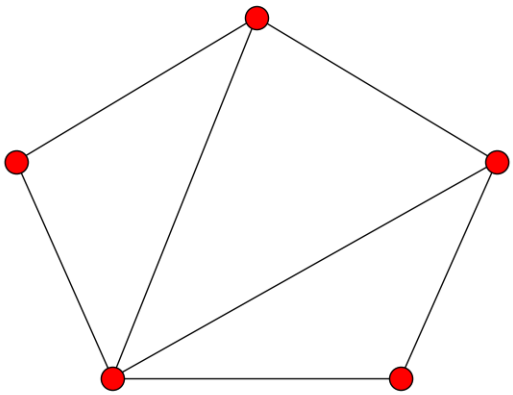


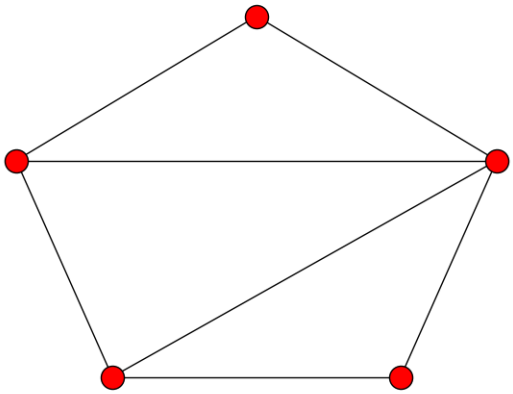


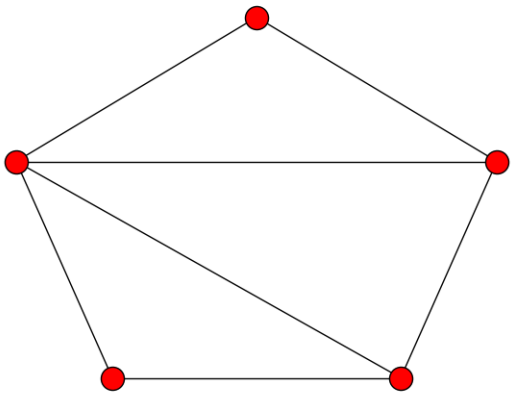
Toutes les triangularisations possibles pour un pentagone.



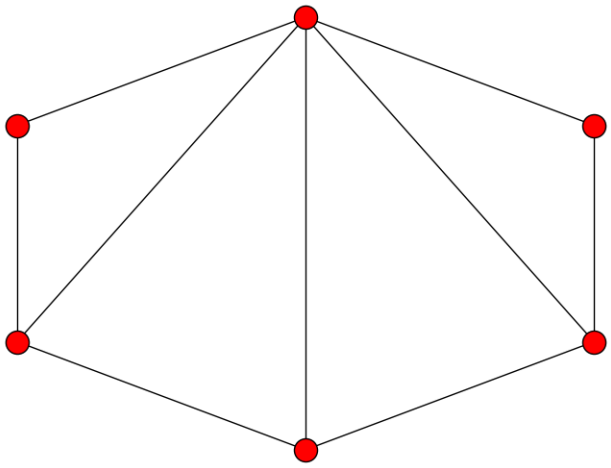


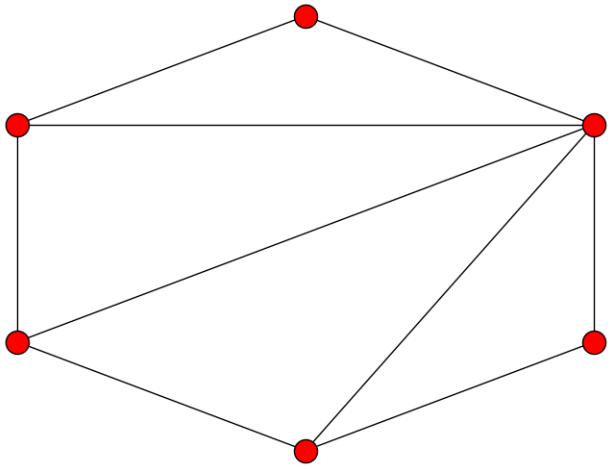


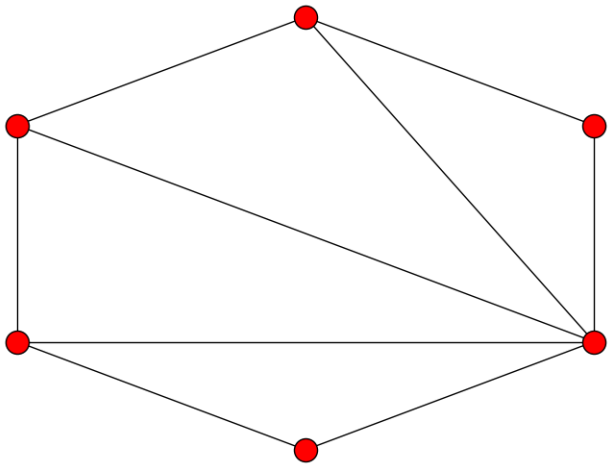


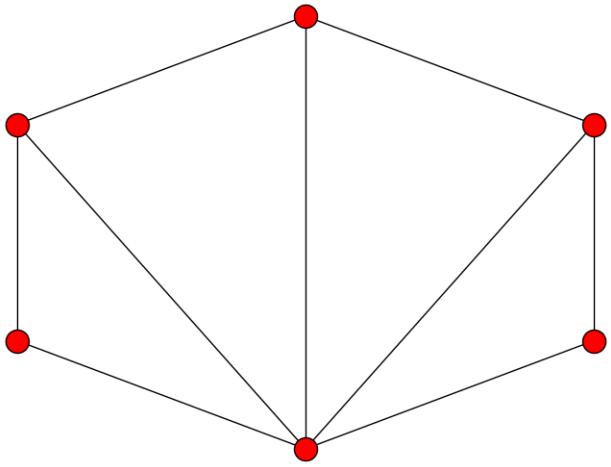


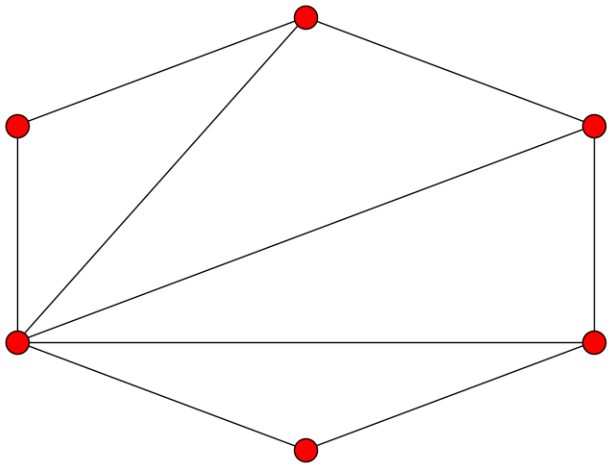
Toutes les triangularisations possibles pour un hexagone.

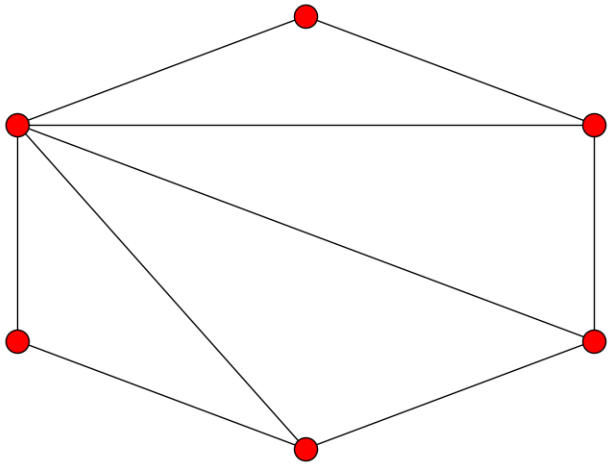


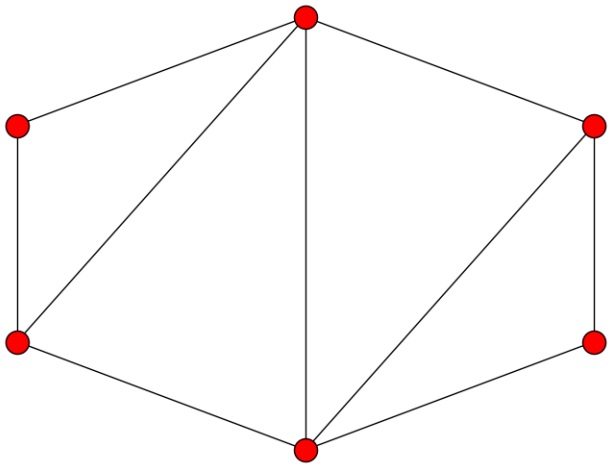


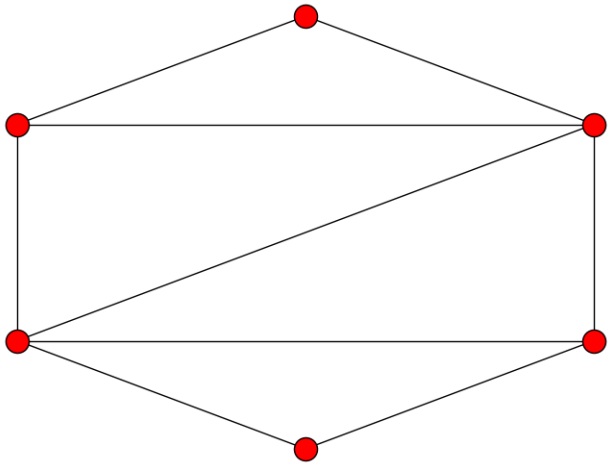


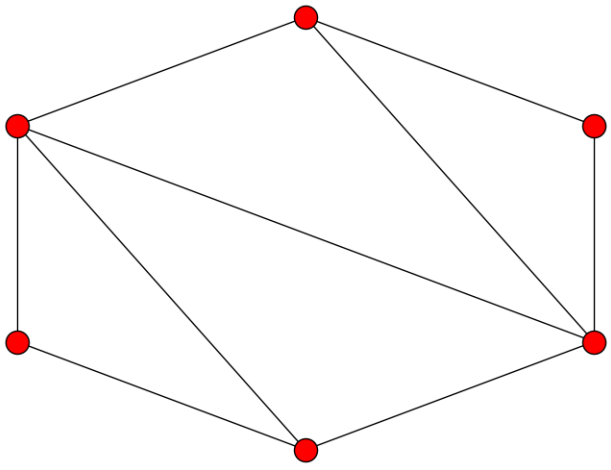


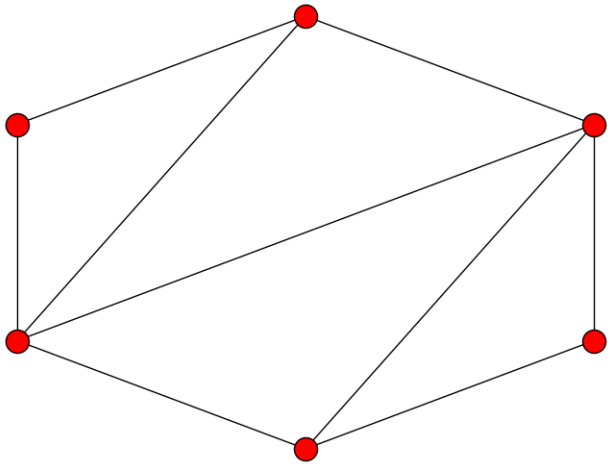


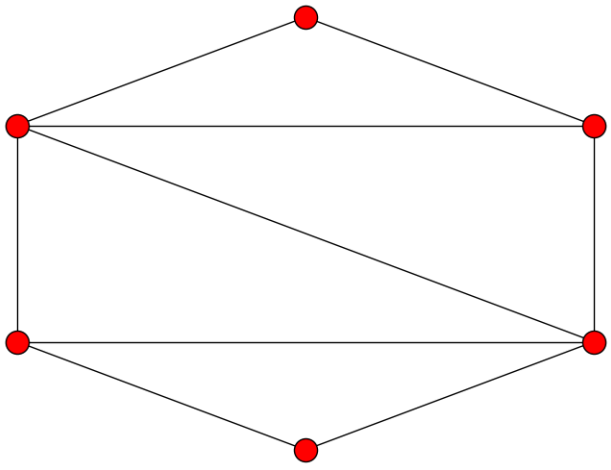


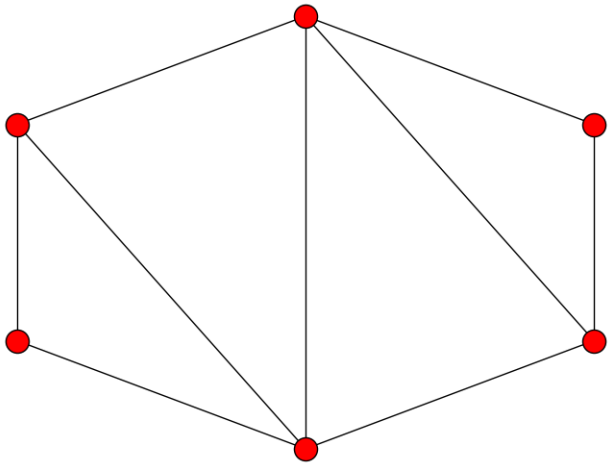


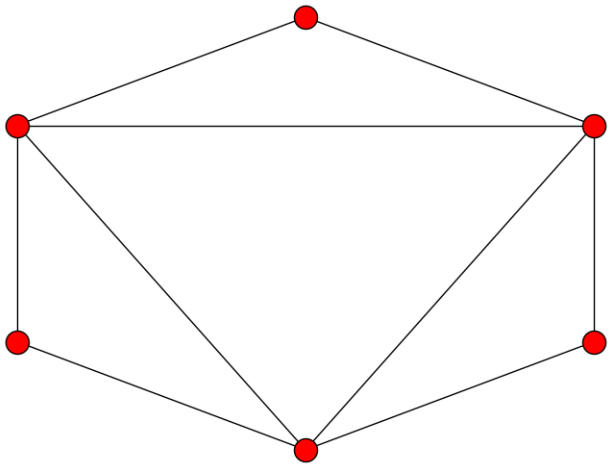


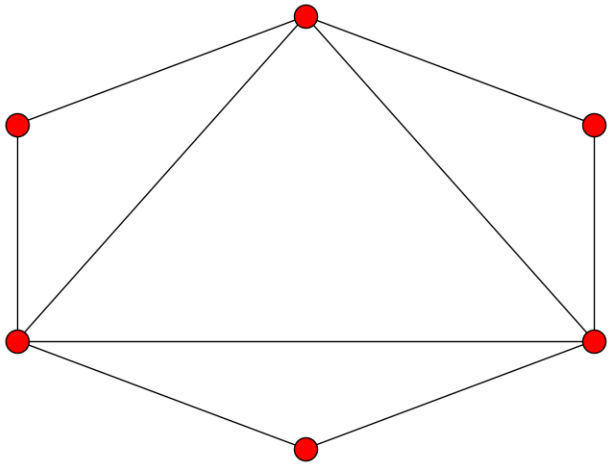












Exercice 2.2

récurrence, car la première triangularisation réduit le polygone
pour T_n : nombre de façons de trianguliariser un n-gone

$T_n = \sum_{i=0}^{n-2} T_{1+i} T_{n-1-i}$

Exercice 3

Pour toute montée, on ouvre une paranthèse.
Pour tout plat, on ferme une paranthèse.