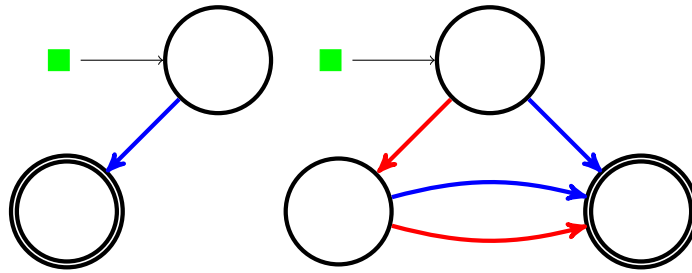
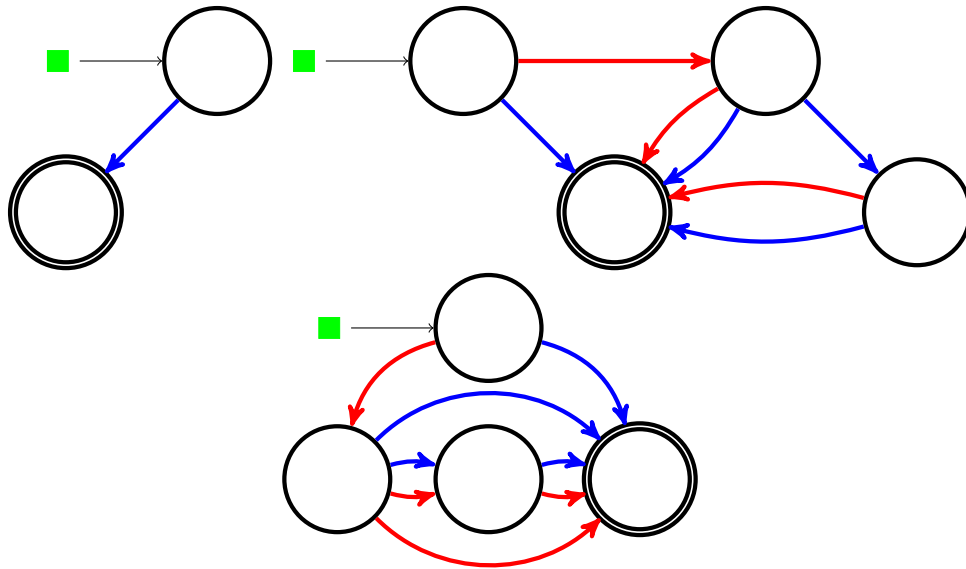


Dérivée de la fonction cube

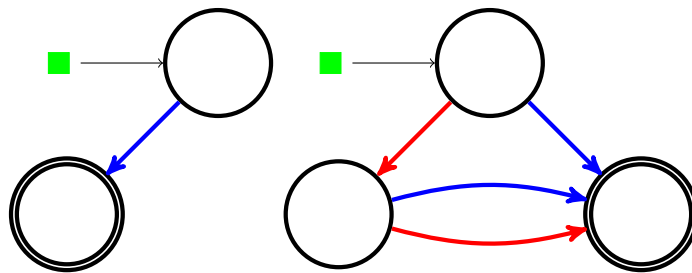
Le cube de



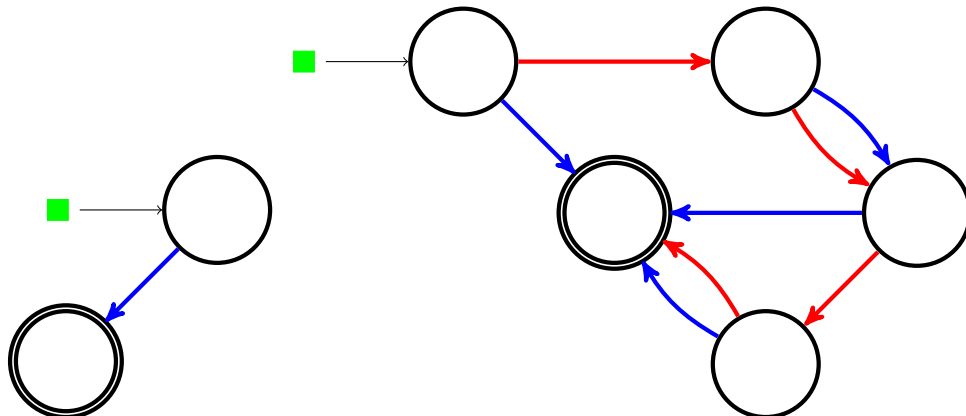
est le produit de

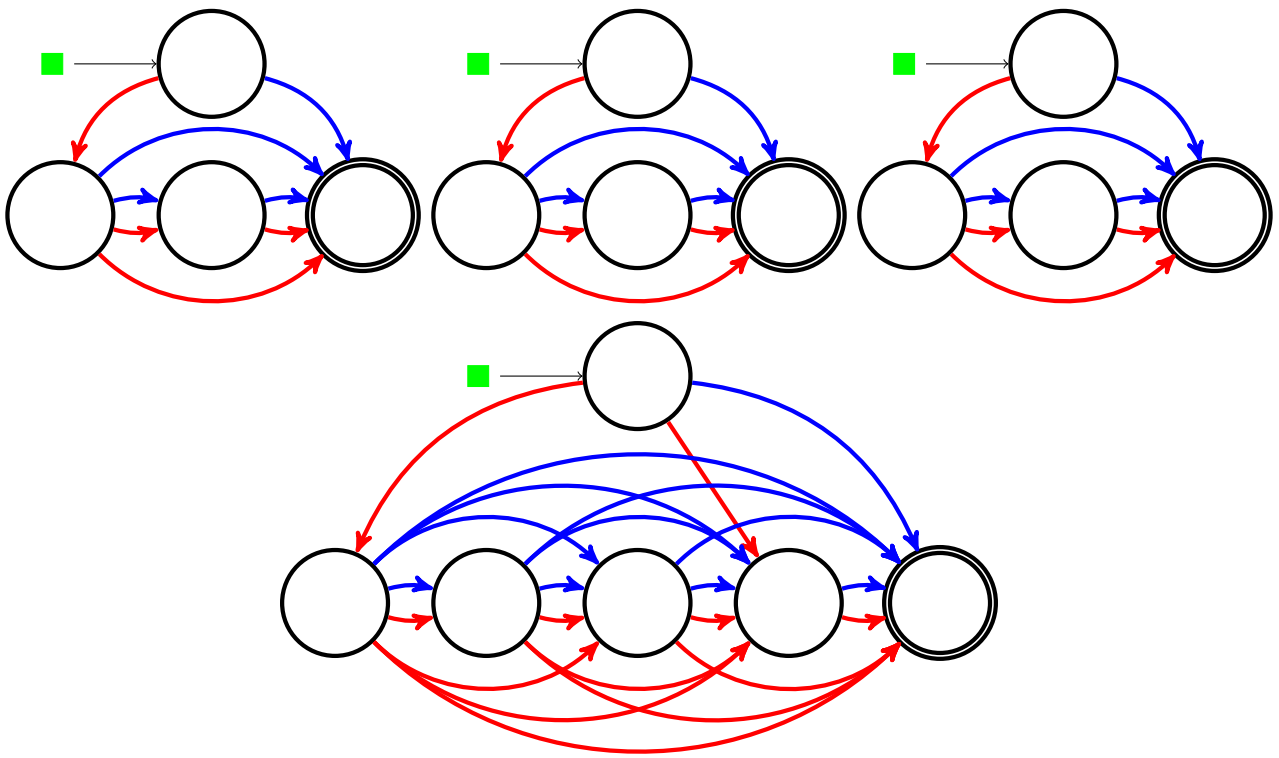


par

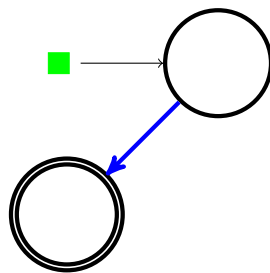


soit

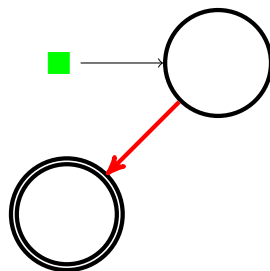




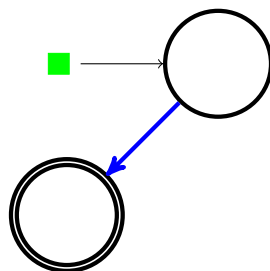
Tous ces termes sont infinitésimaux, sauf le premier



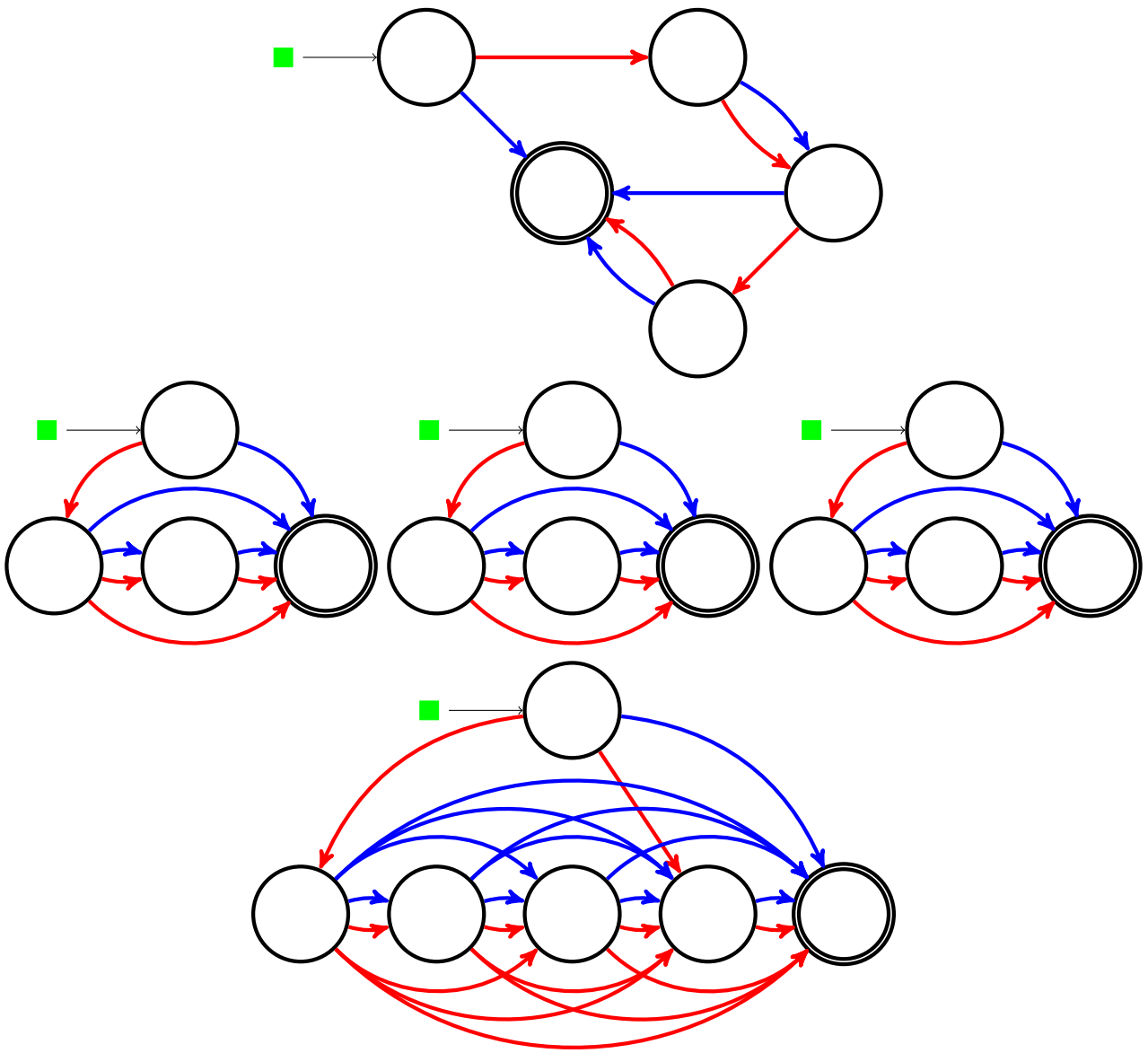
Ainsi, si on ajoute au jeu ci-dessus le terme



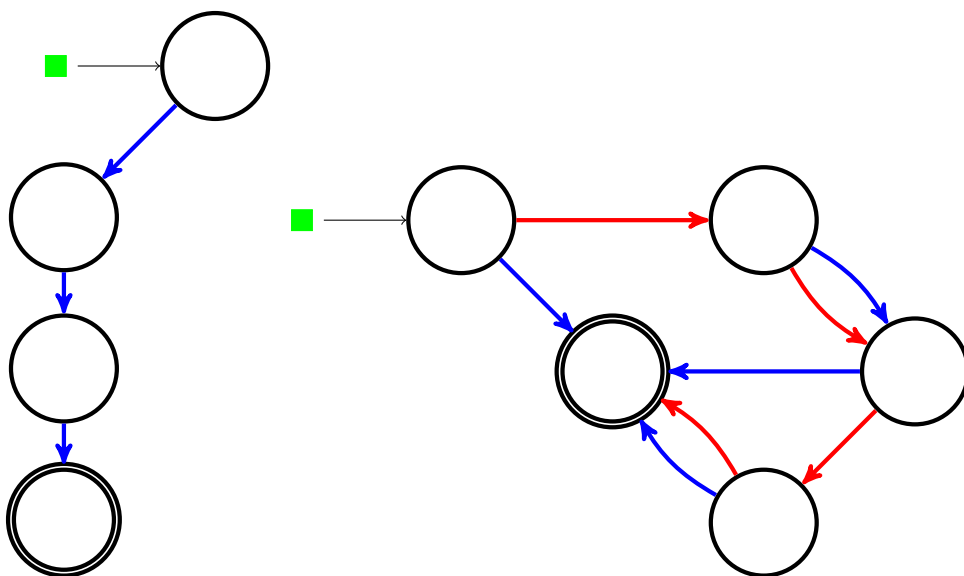
qui neutralise

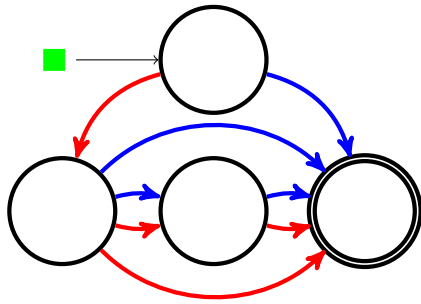


il restera la somme infinitésimale

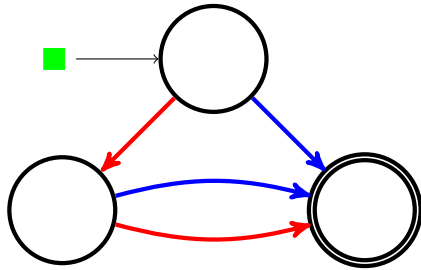


C'est un jeu positif. Il existe donc une stratégie gagnante pour les bleus. Laquelle ?
 Maintenant si on multiplie

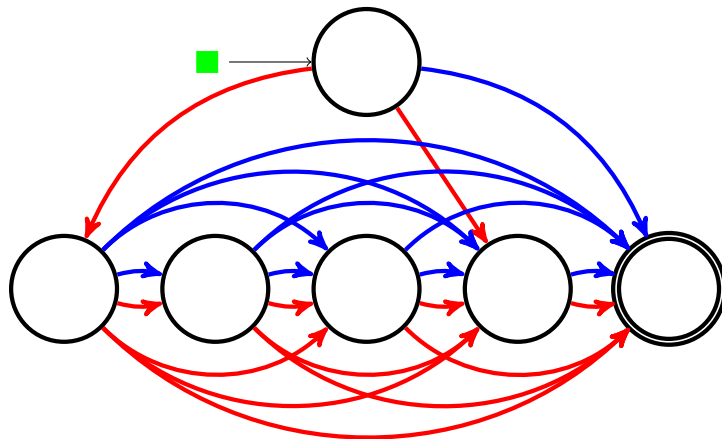
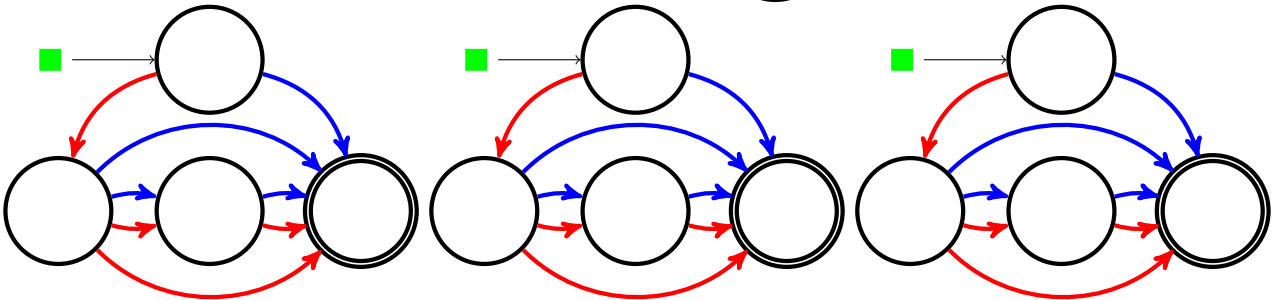
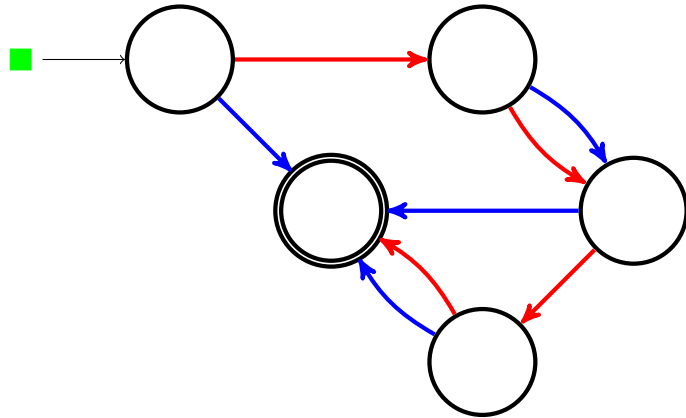




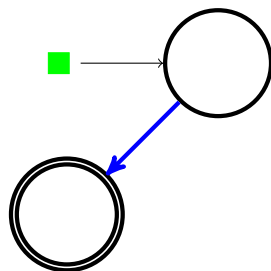
par



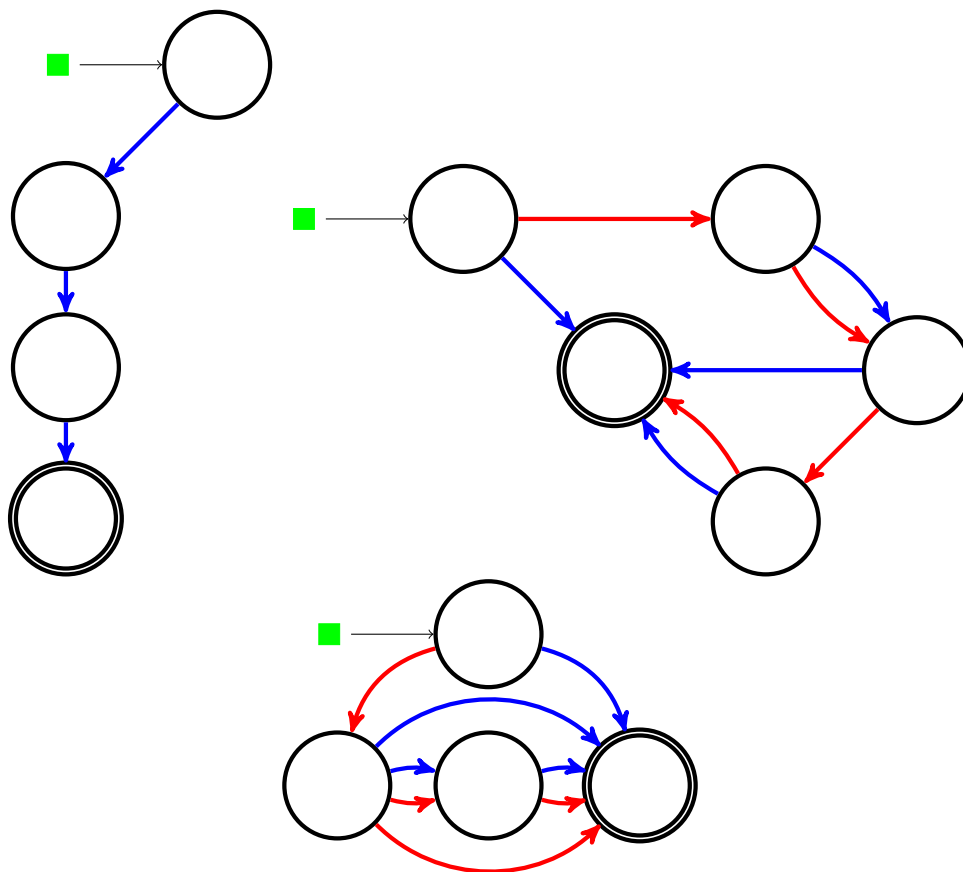
on obtient la même somme que ci-avant (le jeu infinitésimal) :



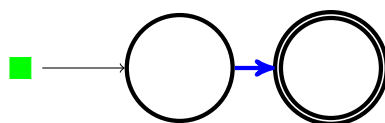
Ce qui signifie que le taux d'accroissement de la fonction $x \mapsto x^3$ en



est



Mais deux des termes sont infinitésimaux. Donc le nombre dérivé de $x \mapsto x^3$ en



est

