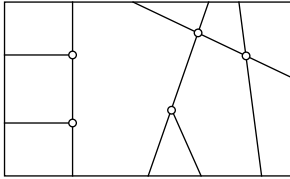


LE THÉORÈME DES CINQ COULEURS

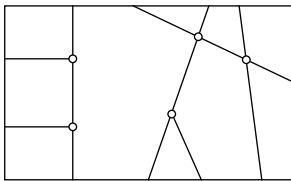
(quelques schémas pour aider la lecture de l'article distribué)

➤ **Une démonstration par récurrence:** pour montrer que $P(q + 1)$ est vraie



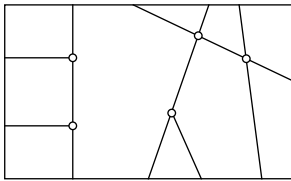
“ n ” = 10 ; “ p ” = 5 ; “ $q + 1$ ” = 14

• si $g = 0$



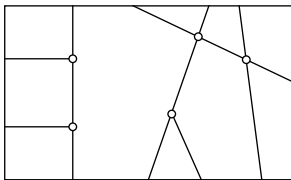
“ n ” = ; “ p ” = ; “ q ” =

• si $g = 1$



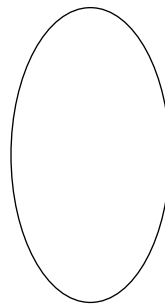
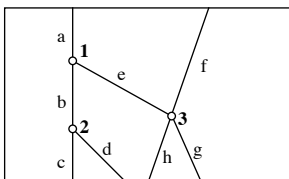
“ n ” = ; “ p ” = ; “ q ” =

• si $g = 2$

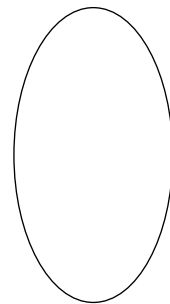


“ n ” = ; “ p ” = ; “ q ” =

➤ **Une propriété générale:** pour montrer $p \leq 2n + 2$



points
frontières



frontières
terrestres