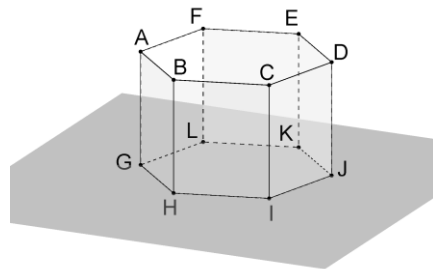


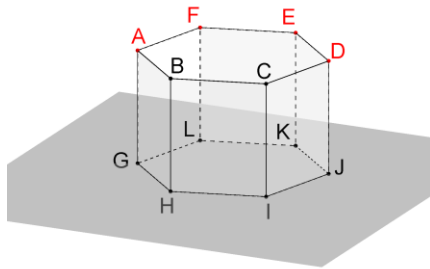
Géométrie dans l'espace : positions relatives de droites et plans Série 4

Calcul mental et automatismes – IREM de Clermont-Ferrand

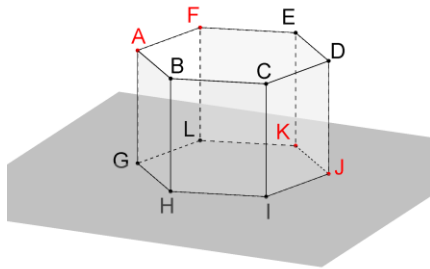
On considère le prisme droit ci-dessous.
La base est un hexagone régulier.
Déterminer la position relative :



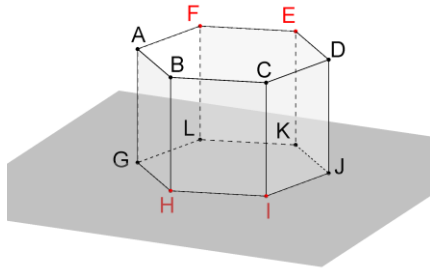
1) des droites (AF) et (ED)



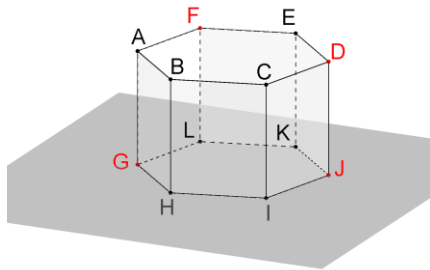
2) des droites (AF) et (KJ)



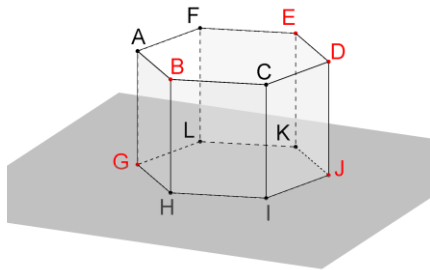
3) des droites (FE) et (HI)



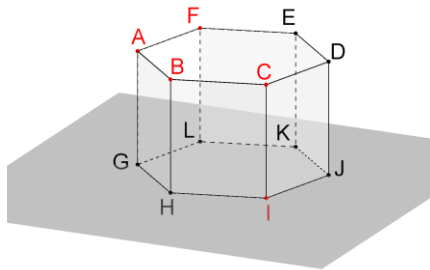
4) des droites (FJ) et (GD)



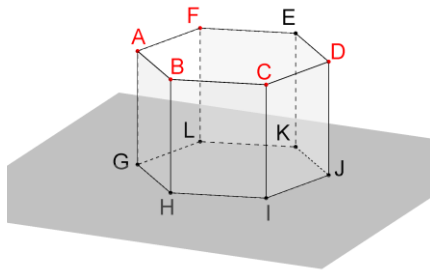
5) de la droite (GB) et du plan (EDJ)



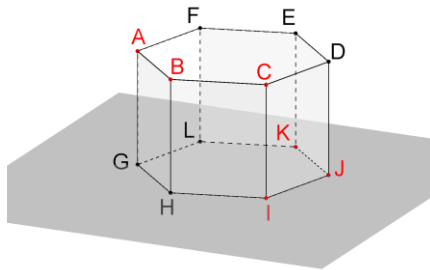
6) de la droite (AF) et du plan (BCI)



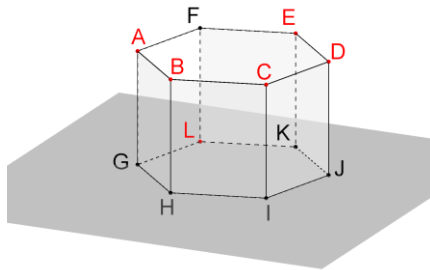
7) de la droite (AF) et du plan (BCD)



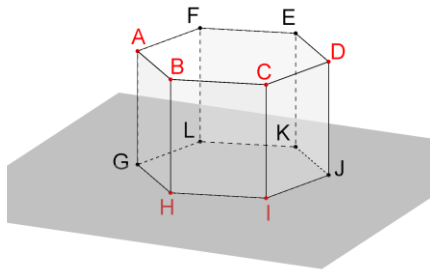
8) des plans (ABC) et (IJK)



9) des plans (ABC) et (DEL)

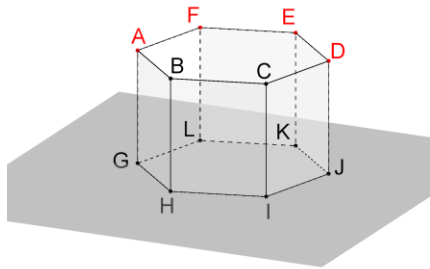


10) des plans (ABH) et (DCI)

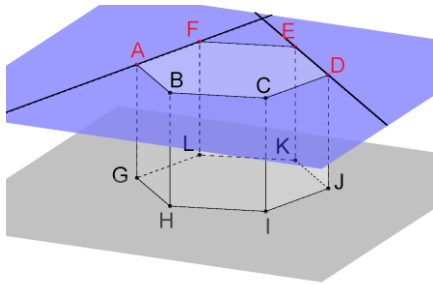


Correction

1) des droites (AF) et (ED)

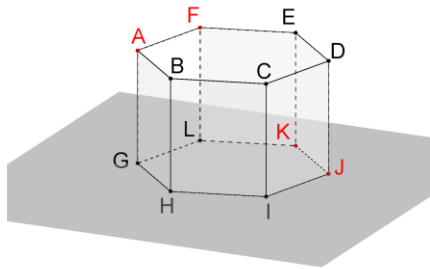


1) des droites (AF) et (ED)

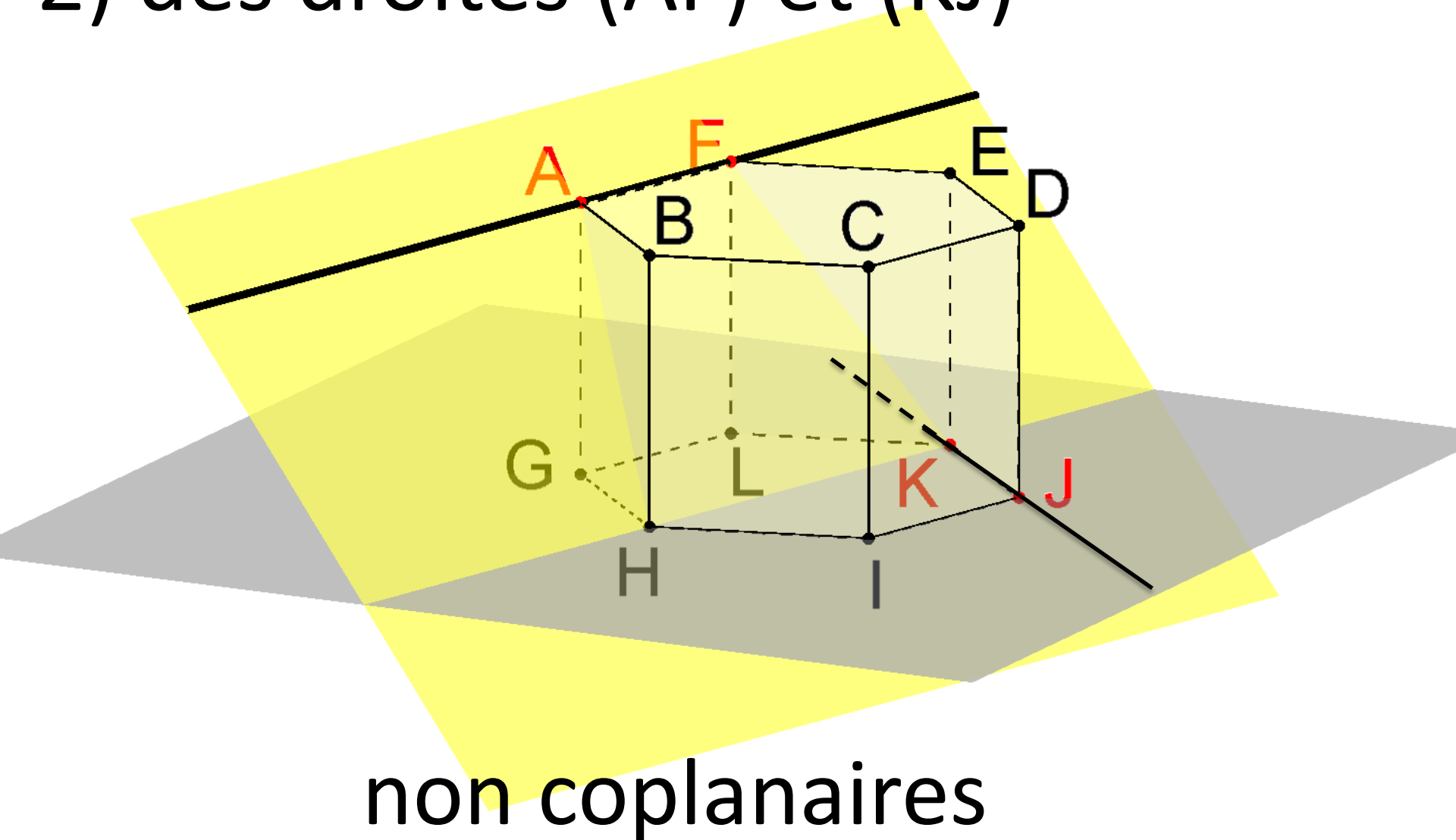


coplanaires dans (ABC) et sécantes.

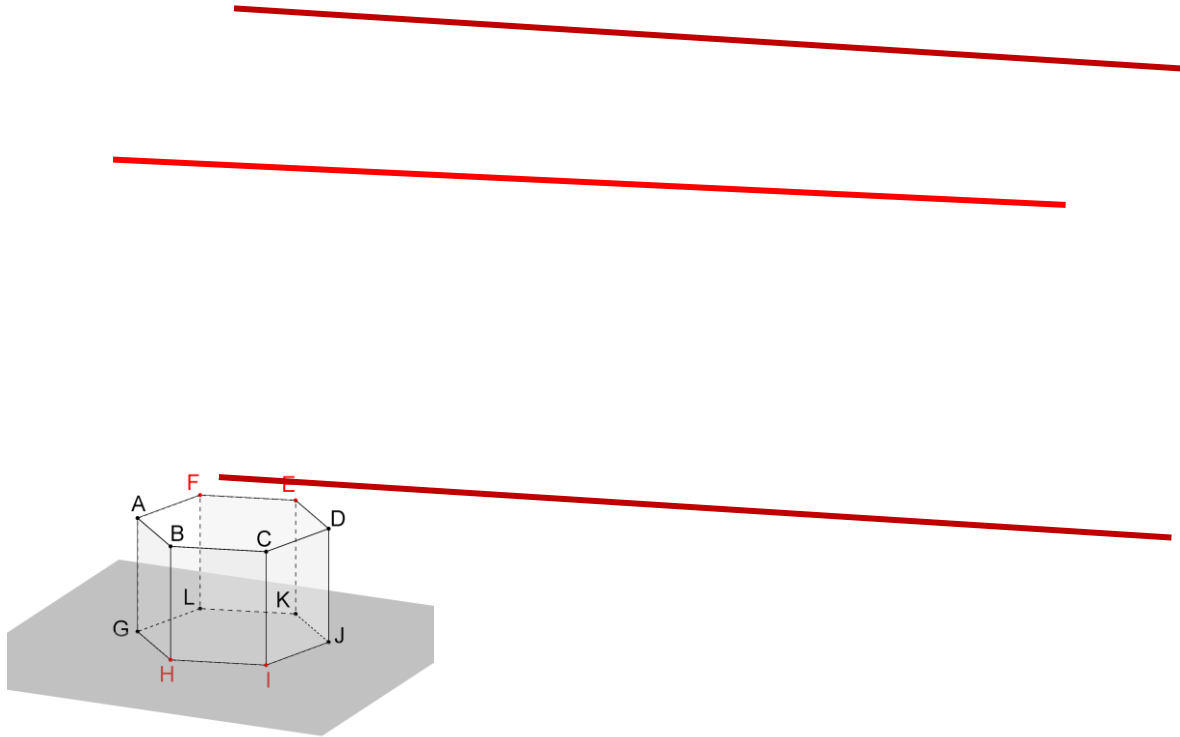
2) des droites (AF) et (KJ)



2) des droites (AF) et (KJ)

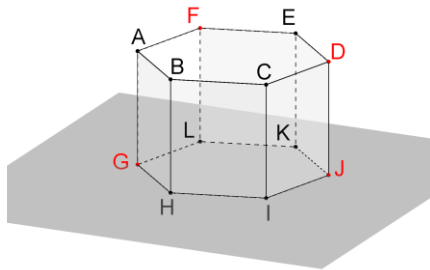


3) des droites (FE) et (HI)

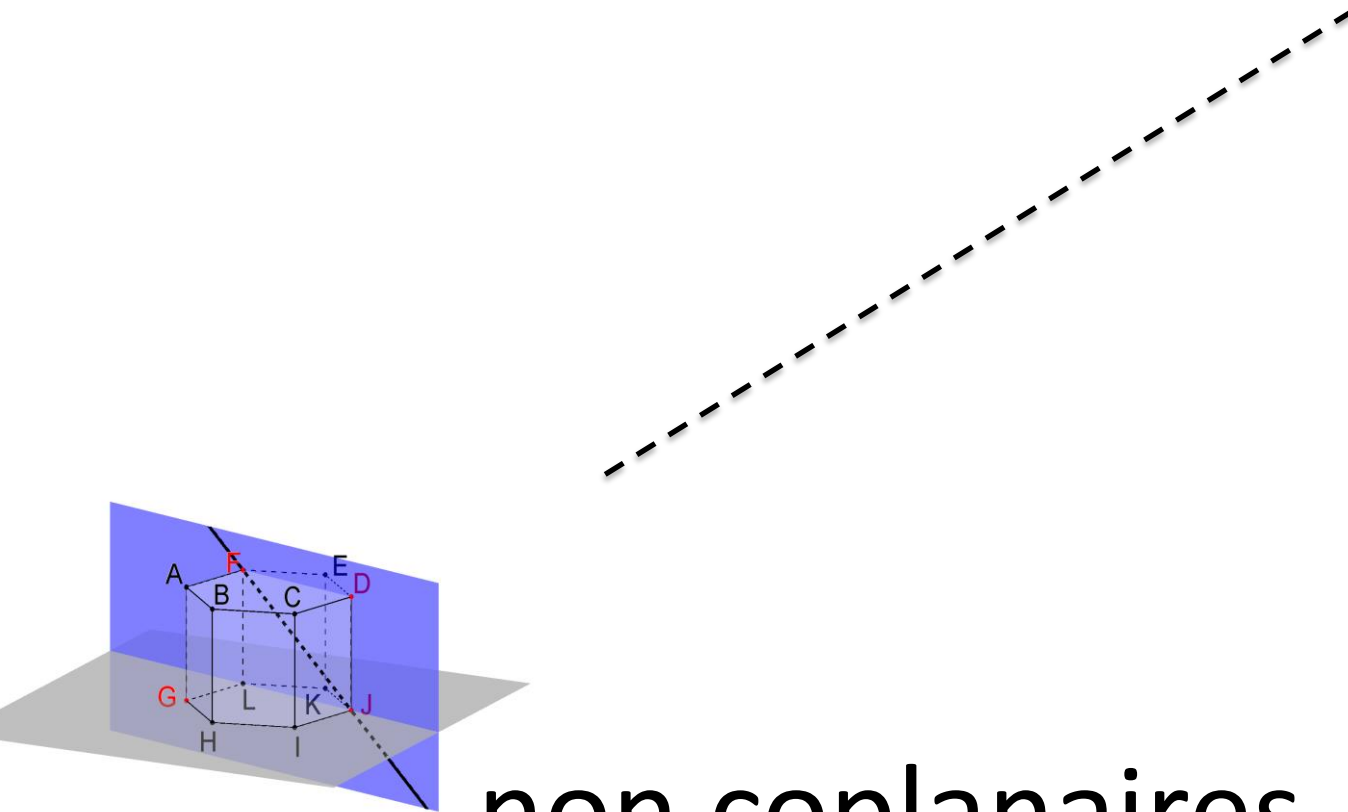


parallèles donc coplanaires

4) des droites (FJ) et (GD)

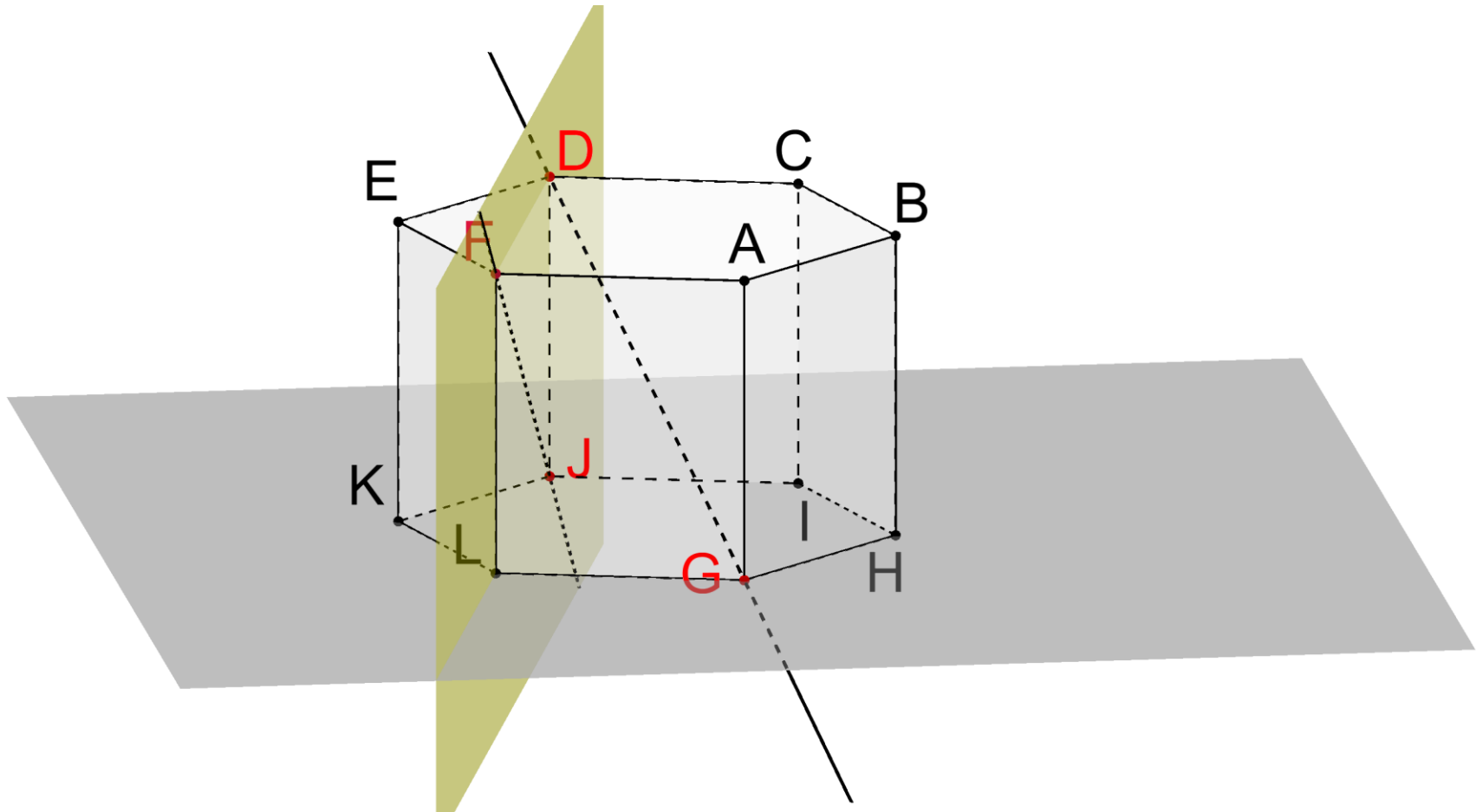


4) des droites (FJ) et (GD)



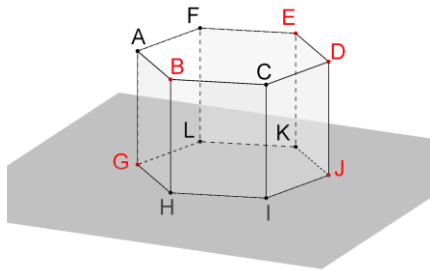
non coplanaires

4 bis) des droites (FJ) et (GD)

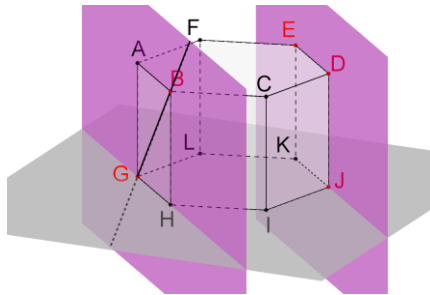


non coplanaires

5) de la droite (GB) et du plan (EDJ)

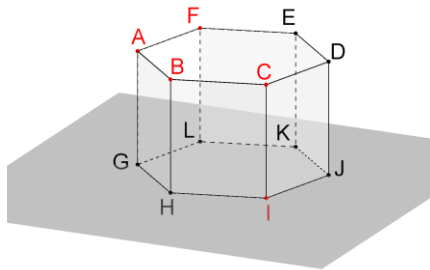


5) de la droite (GB) et du plan (EDJ)

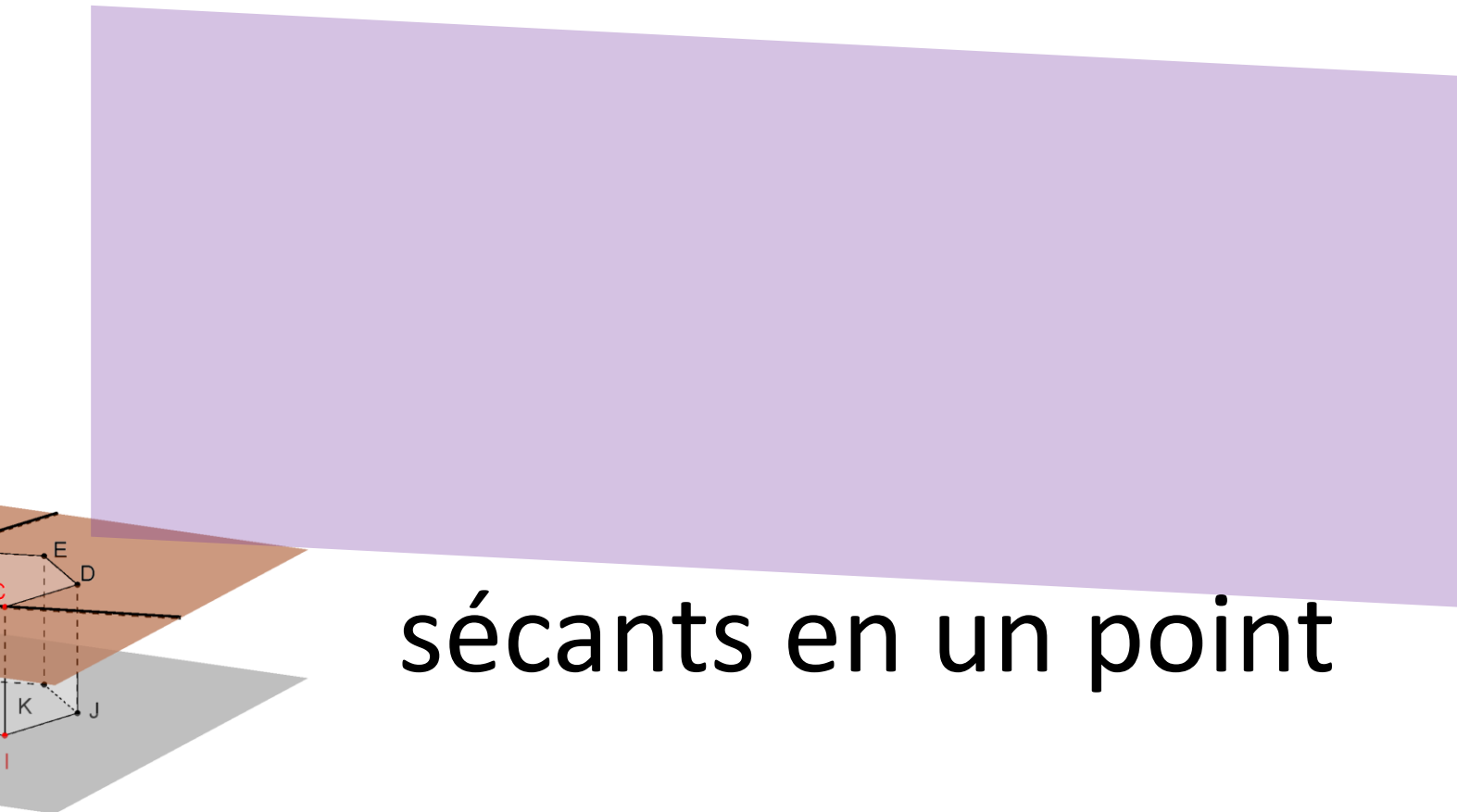


strictement parallèles

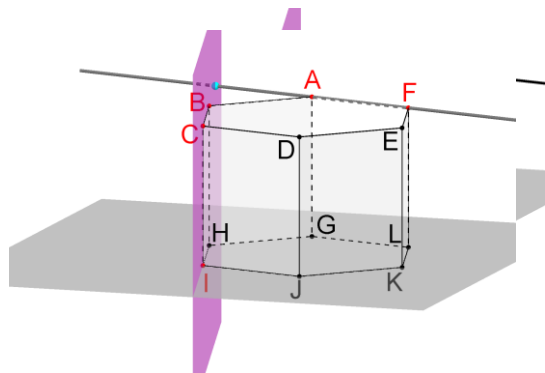
6) de la droite (AF) et du plan (BCI)



6) de la droite (AF) et du plan (BCI)

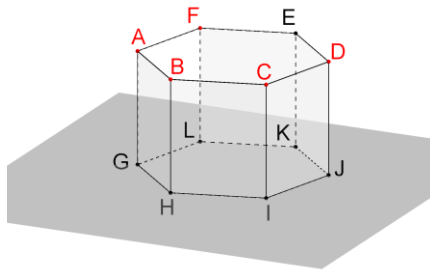


6bis) de la droite (AF) et du plan (BCI)

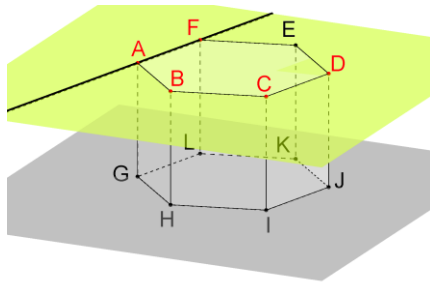


sécants en un point

7) de la droite (AF) et du plan (BCD)

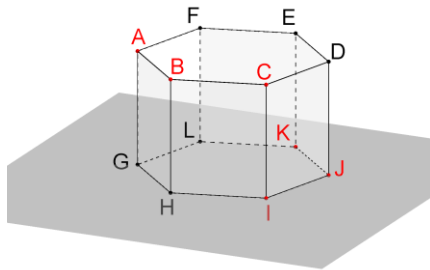


7) de la droite (AF) et du plan (BCD)

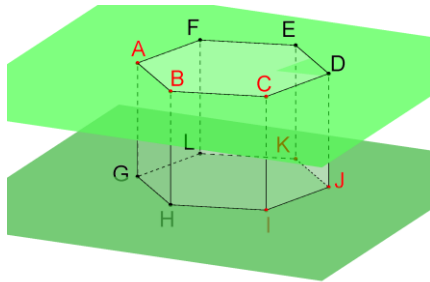


parallèles, (AF) contenue dans (BCD)

8) des plans (ABC) et (IJK)

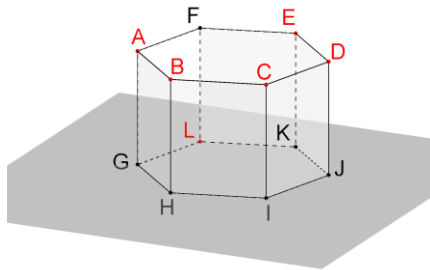


8) des plans (ABC) et (IJK)

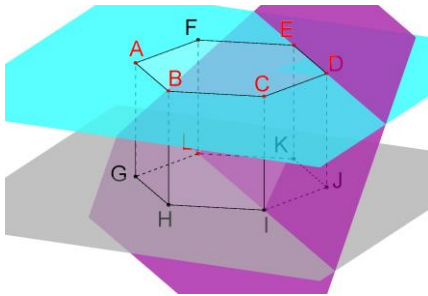
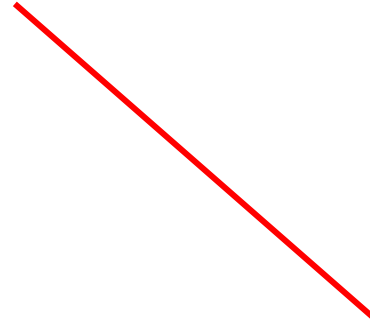


strictement parallèles

9) des plans (ABC) et (DEL)

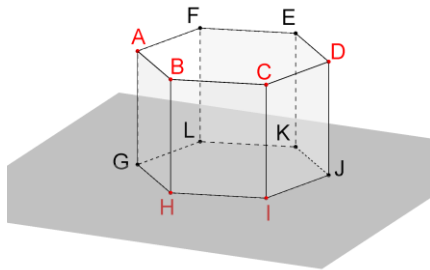


9) des plans (ABC) et (DEL)

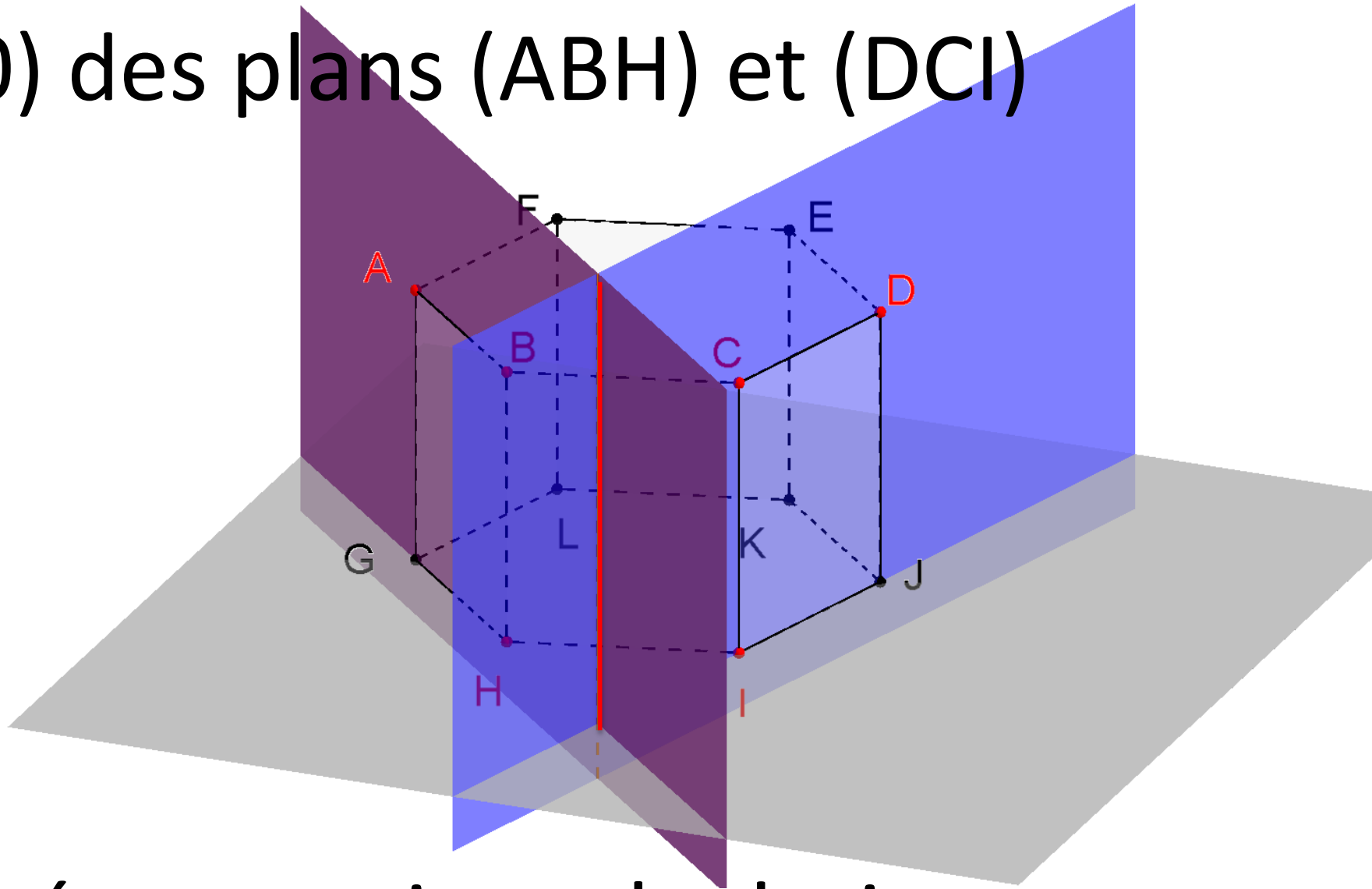


sécants suivant (DE)

10) des plans (ABH) et (DCI)

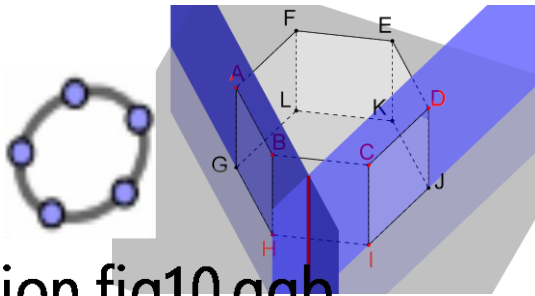


10) des plans (ABH) et (DCI)



sécants suivant la droite rouge

10bis) des plans (ABH) et (DCI)



correction fig10.ggb

sécants suivant la droite rouge

Fin