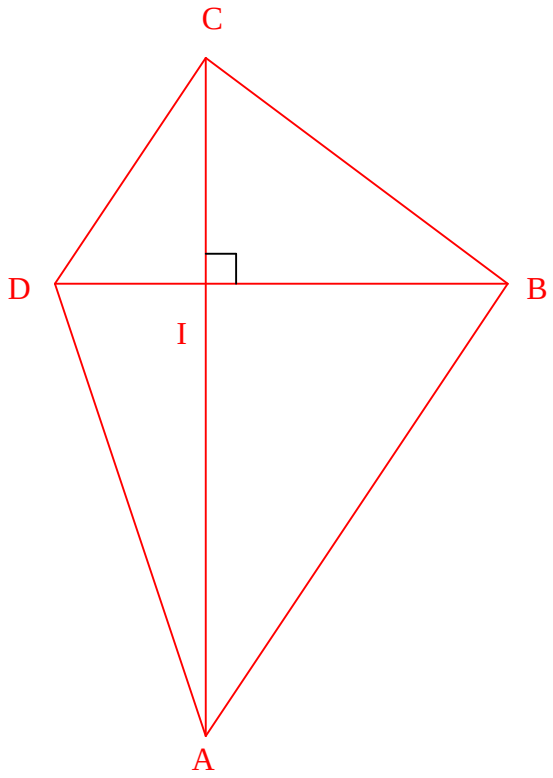
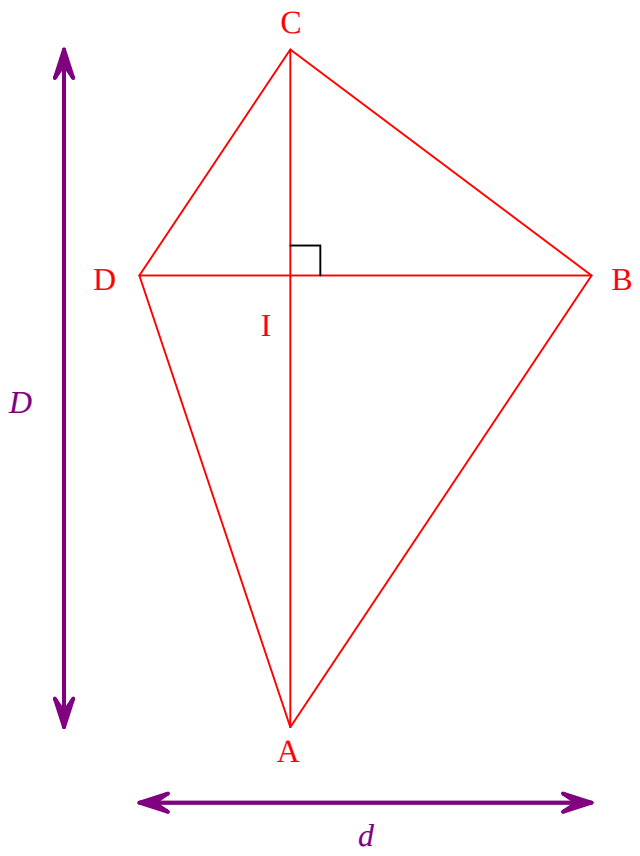
Aire d’un quadrilatère convexe

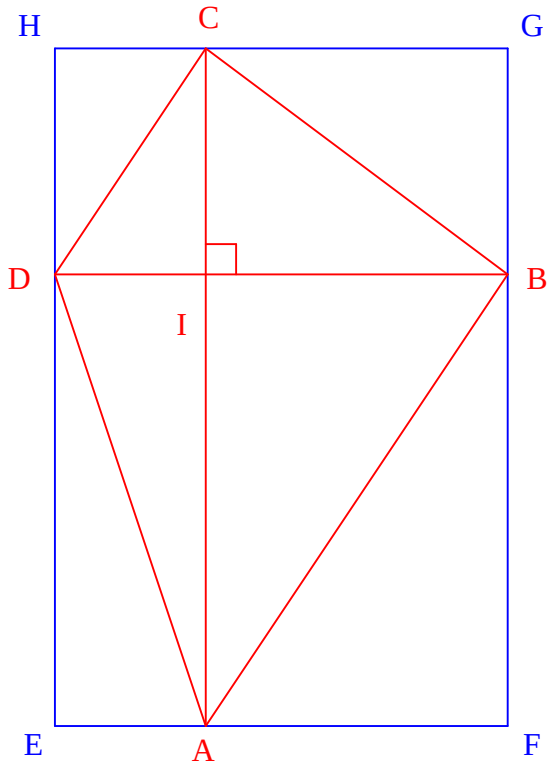
dont les diagonales sont perpendiculaires

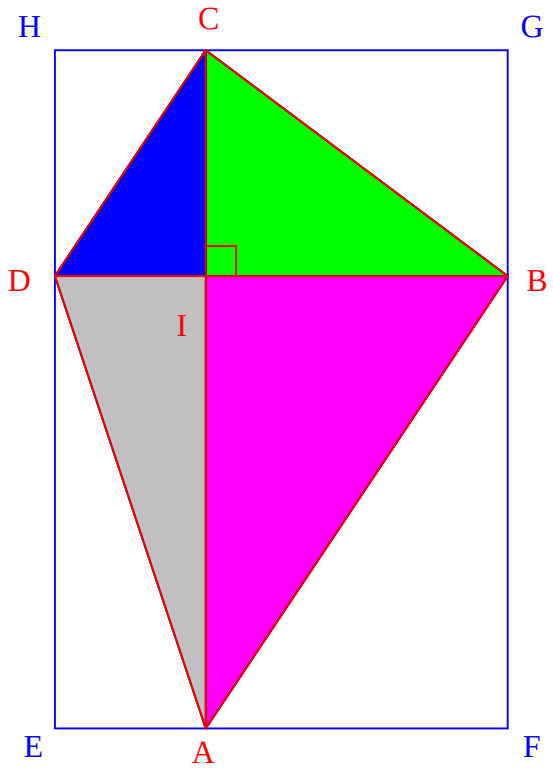
Preuve sans parole


C
D
B
I
A


C
D
B
I
D
A
d

Idée : inscrire le quadrilatère ABCD dans un rectangle




H
C
G
D
B
I
E
A
F

$$\text{aire de ABCD} = \frac{\text{aire de EFGH}}{2}$$

$$\textbf{aire de ABCD} = \frac{d \times D}{2}$$

Cas particulier : aire d'un losange