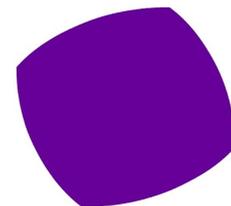
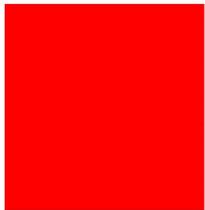
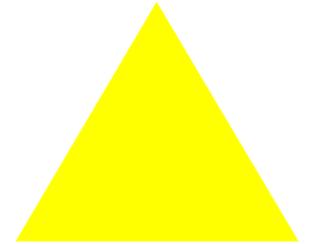
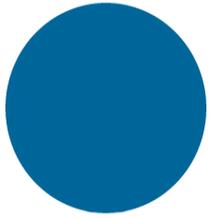
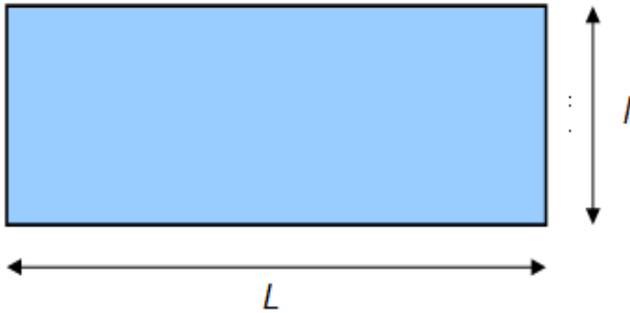


Problèmes Isopérimétriques

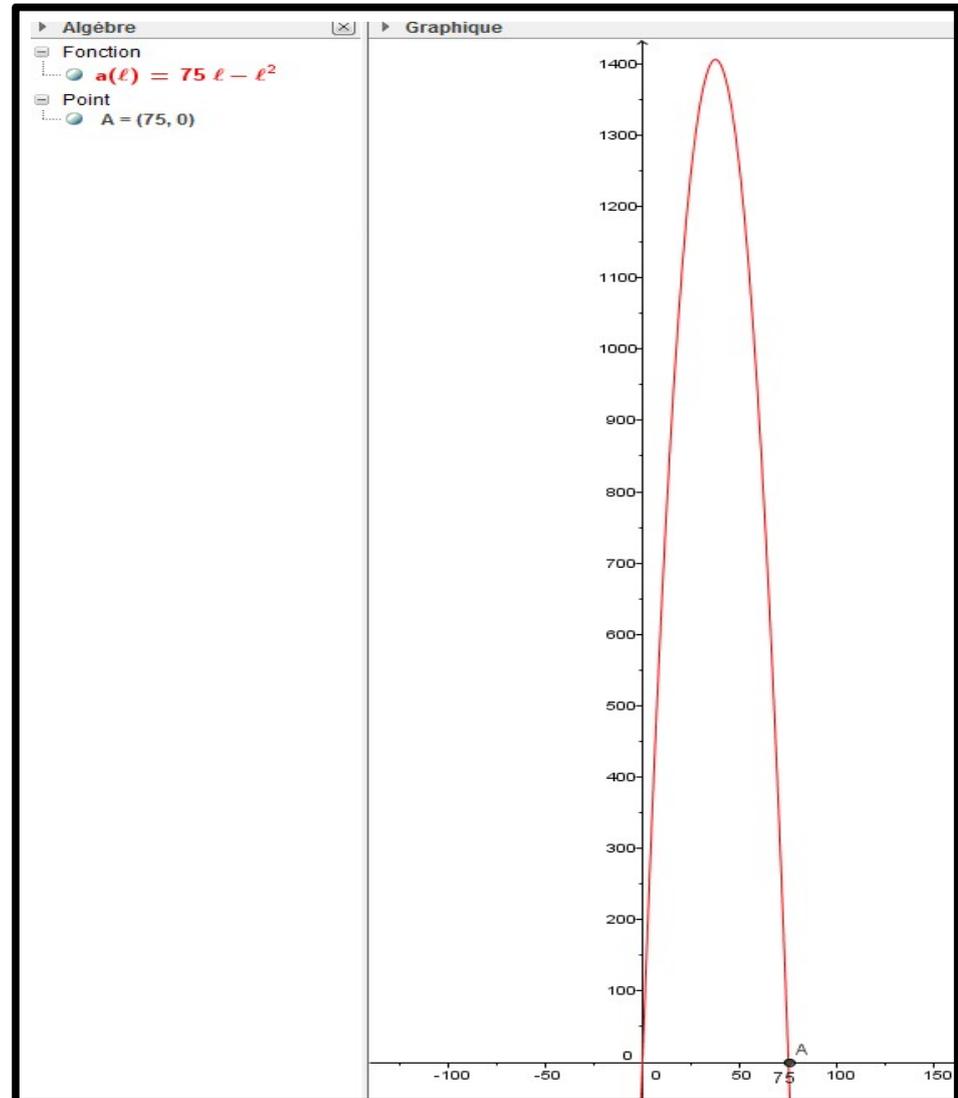


Les rectangles

- Quel rectangle a la plus grande aire à périmètre fixé ?

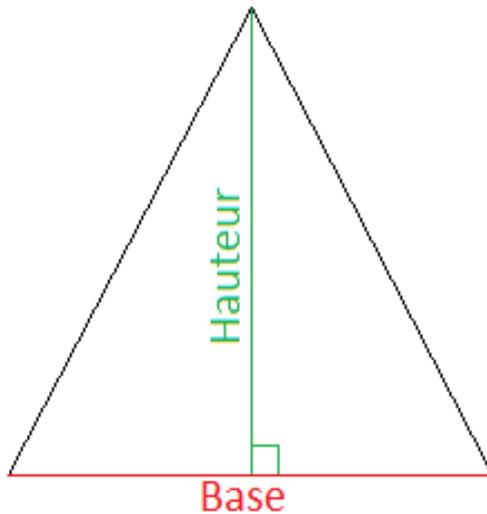


$$A = L \times l$$



Les Triangles

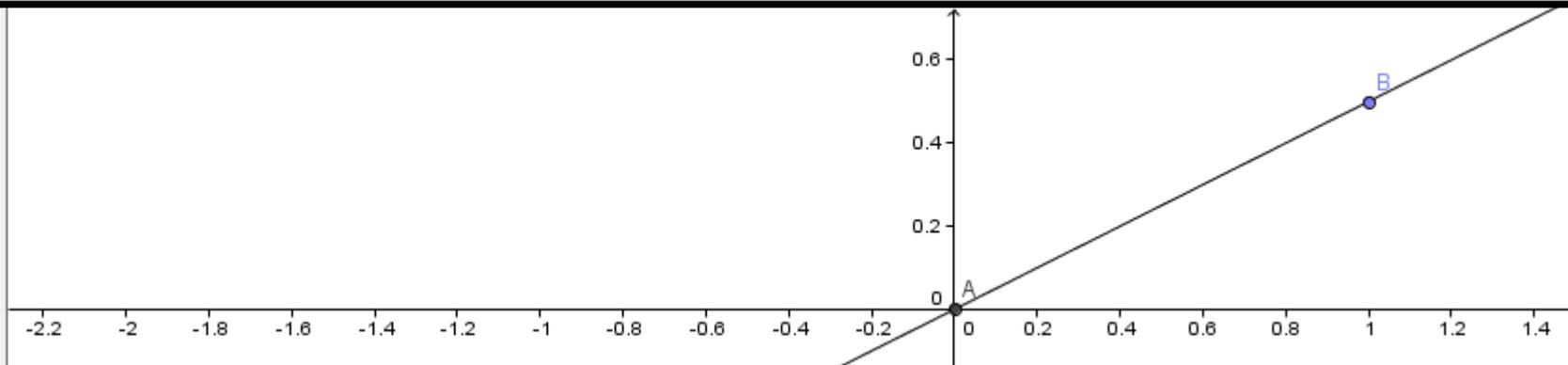
- Quel triangle a la plus grande aire à périmètre fixé ?



$$A = \frac{\text{Base} \times \text{Hauteur}}{2}$$

Fonction
 $f(h) = \frac{h}{2}$

Point
A = (0, 0)
B = (1, 0.5)



Les polygones à x côtés

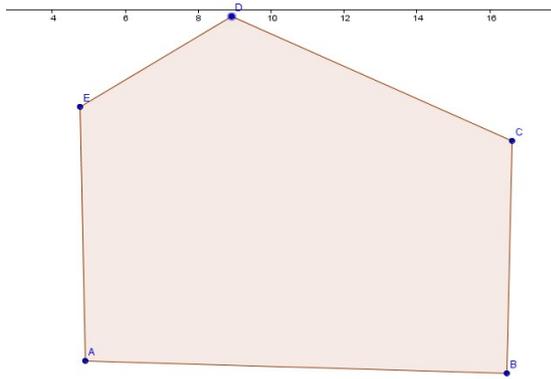


Figure 1

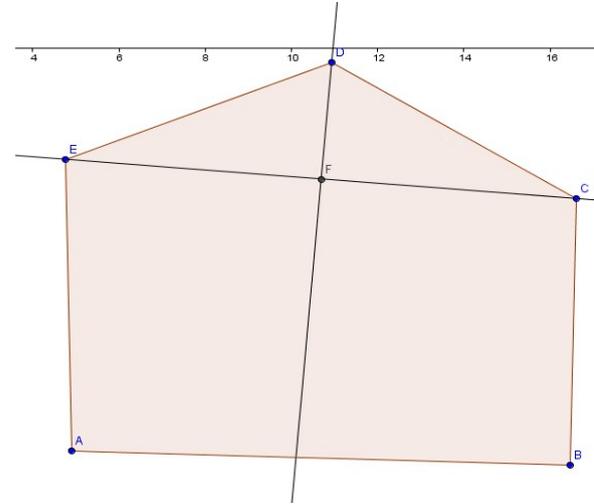


Figure 3

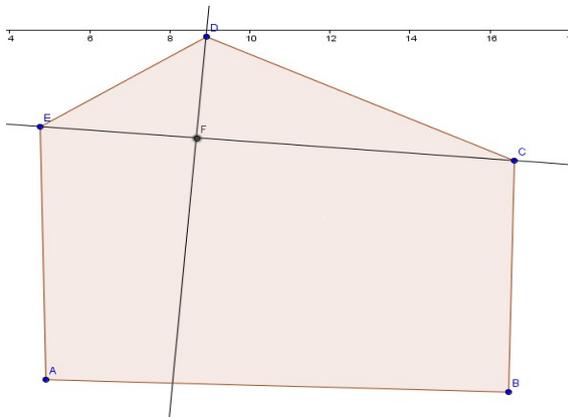


Figure 2

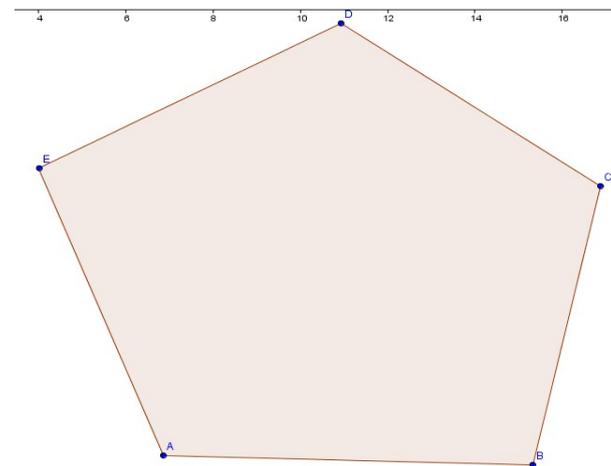
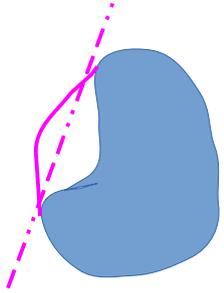
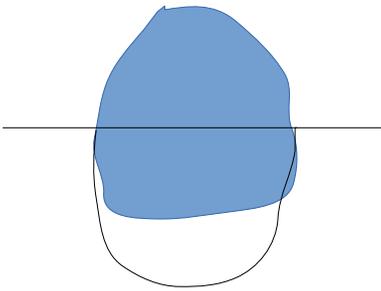


Figure 4

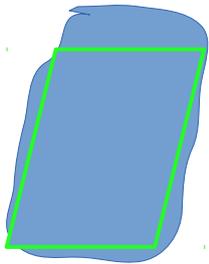
Les formes quelconques



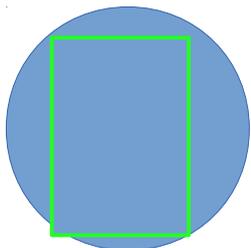
On retire les « creux » en gardant le périmètre



On coupe le périmètre en 2 et on calque la partie qui a la + grande aire



On trace un parallélogramme dans la figure



On transforme le parallélogramme en rectangle de même périmètre