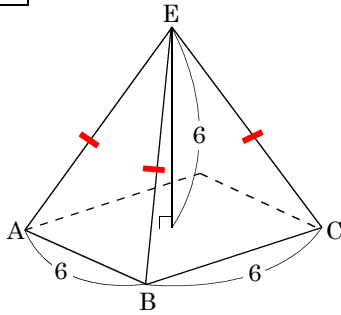


6



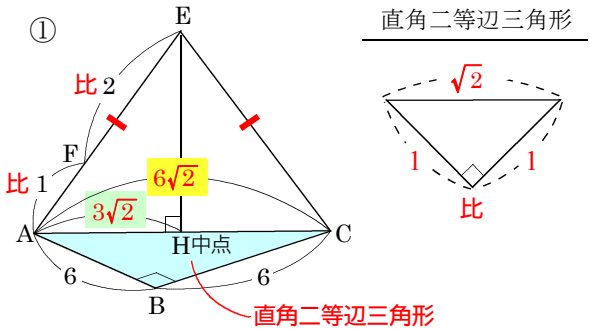
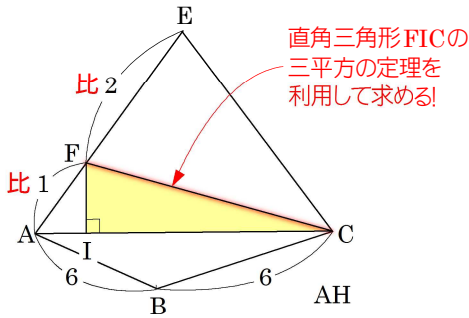
(ア) この正四角すいの体積を求めなさい。

$$\text{角錐の体積} = \frac{1}{3} \times \text{底面積} \times \text{高さ}$$

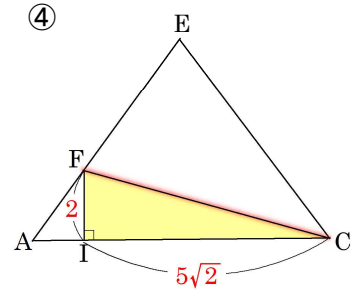
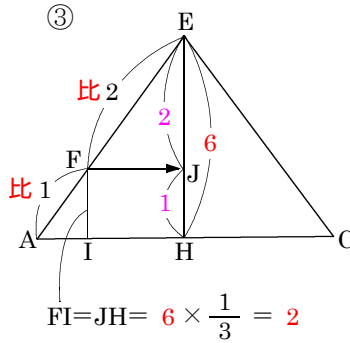
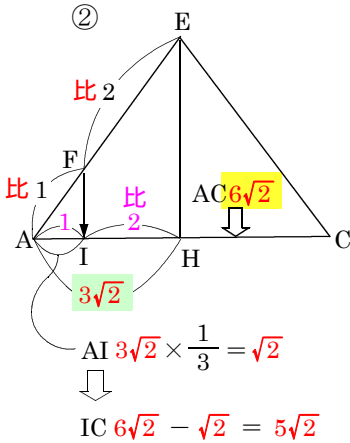
$$\frac{1}{3} \times \frac{\text{底面積}}{\text{一辺} \times \text{一辺}} \times \frac{\text{高さ}}{\text{一辺}} = 72 \text{ cm}^3$$

(イ) この正四角すいにおいて、2点C, Fの距離を求めよ。

ICの長さを求める



FIの長さを求める



$$2^2 + (5\sqrt{2})^2 = CF^2$$

$$4 + 50 = CF^2$$

$$54 = CF^2$$

$$\sqrt{54} = CF$$

$$3\sqrt{6} = CF$$

答 $3\sqrt{6} \text{ cm}$