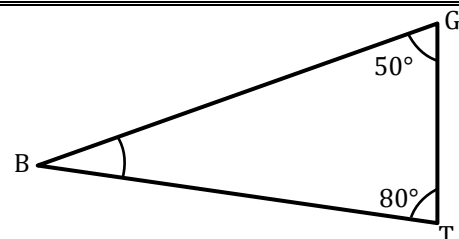
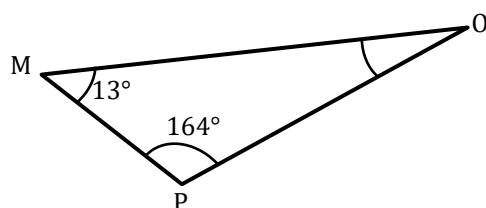
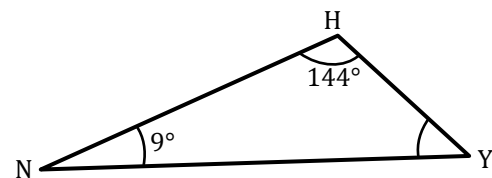
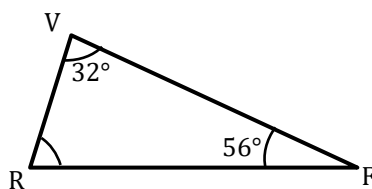
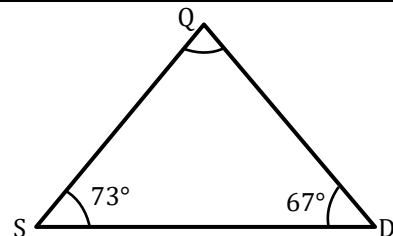
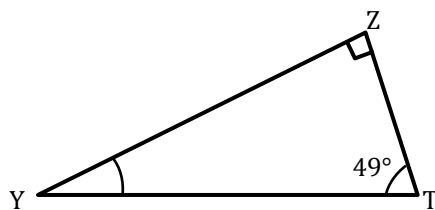
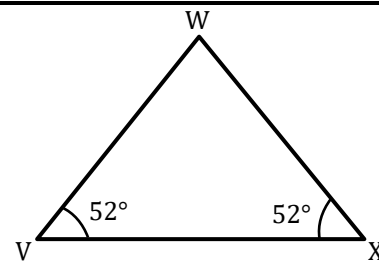
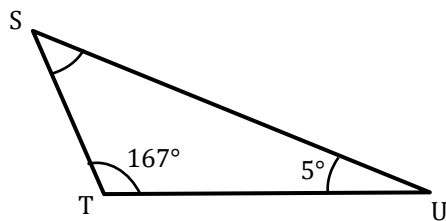
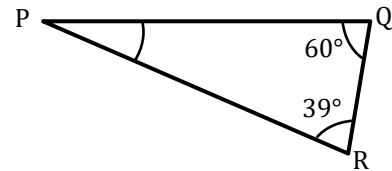
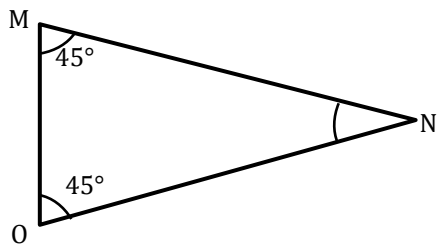
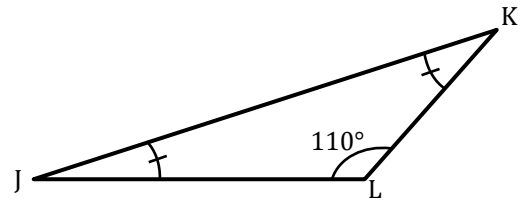
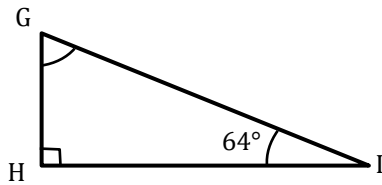
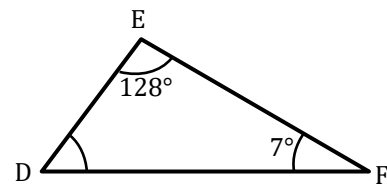
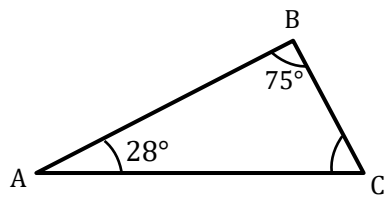




Somme des angles d'un triangle

Exercice : Calculer la valeur des angles manquants.

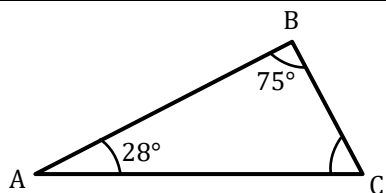




Somme des angles d'un triangle

Correction

Exercice : Calculer la valeur des angles manquants.

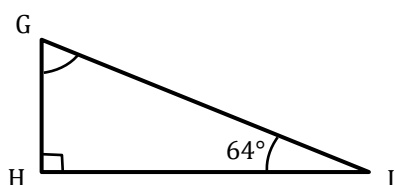
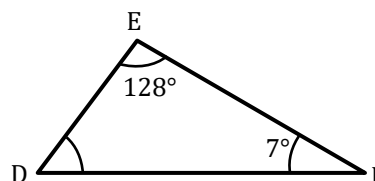


Dans le triangle ABC,
La somme des angles d'un triangle est égale à 180°.

$$\begin{aligned}\widehat{ABC} + \widehat{BAC} + \widehat{BCA} &= 180^\circ \\ 75^\circ + 28^\circ + \widehat{BCA} &= 180^\circ \\ \widehat{BCA} &= 180^\circ - 75^\circ - 28^\circ \\ \widehat{BCA} &= 77^\circ\end{aligned}$$

Dans le triangle DEF,
La somme des angles d'un triangle est égale à 180°.

$$\begin{aligned}\widehat{DEF} + \widehat{EFD} + \widehat{EDF} &= 180^\circ \\ 128^\circ + 7^\circ + \widehat{EDF} &= 180^\circ \\ \widehat{EDF} &= 180^\circ - 128^\circ - 7^\circ \\ \widehat{EDF} &= 45^\circ\end{aligned}$$

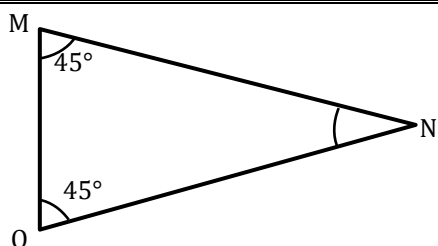
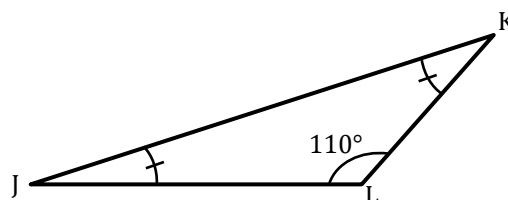


Dans le triangle GHI,
La somme des angles d'un triangle est égale à 180°.

$$\begin{aligned}\widehat{GIJ} + \widehat{IHG} + \widehat{HGI} &= 180^\circ \\ 64^\circ + 90^\circ + \widehat{HGI} &= 180^\circ \\ \widehat{HGI} &= 180^\circ - 64^\circ - 90^\circ \\ \widehat{HGI} &= 26^\circ\end{aligned}$$

Dans le triangle JLK,
La somme des angles d'un triangle est égale à 180°.

$$\begin{aligned}\widehat{LJK} + \widehat{LJK} + \widehat{JKL} &= 180^\circ \\ 110^\circ + \widehat{LJK} + \widehat{JKL} &= 180^\circ \\ 2\widehat{LJK} &= 180^\circ - 110^\circ \\ 2\widehat{LJK} &= 70^\circ \\ \widehat{LJK} &= \widehat{JKL} = 35^\circ\end{aligned}$$

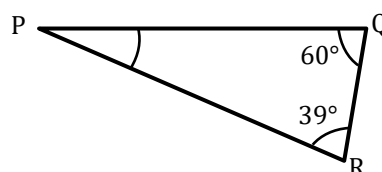


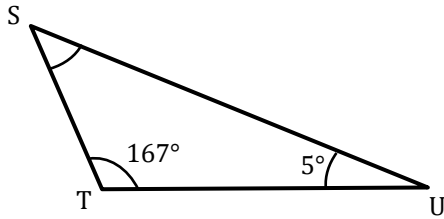
Dans le triangle MON,
La somme des angles d'un triangle est égale à 180°.

$$\begin{aligned}\widehat{NOM} + \widehat{MON} + \widehat{MNO} &= 180^\circ \\ 45^\circ + 45^\circ + \widehat{MNO} &= 180^\circ \\ \widehat{MNO} &= 180^\circ - 45^\circ - 45^\circ \\ \widehat{MNO} &= 90^\circ\end{aligned}$$

Dans le triangle PQR,
La somme des angles d'un triangle est égale à 180°.

$$\begin{aligned}\widehat{PRQ} + \widehat{PQR} + \widehat{QPR} &= 180^\circ \\ 39^\circ + 60^\circ + \widehat{QPR} &= 180^\circ \\ \widehat{QPR} &= 180^\circ - 39^\circ - 60^\circ \\ \widehat{QPR} &= 81^\circ\end{aligned}$$



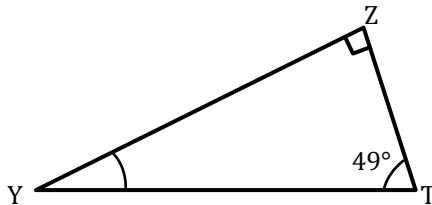
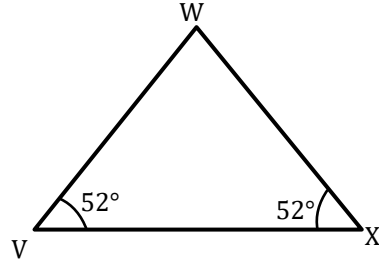


Dans le triangle STU,
La somme des angles d'un triangle est égale à 180°.

$$\begin{aligned}\widehat{STU} + \widehat{TUS} + \widehat{UST} &= 180^\circ \\ 167^\circ + 5^\circ + \widehat{UST} &= 180^\circ \\ \widehat{UST} &= 180^\circ - 167^\circ - 5^\circ \\ \widehat{UST} &= 8^\circ\end{aligned}$$

Dans le triangle VWX,
La somme des angles d'un triangle est égale à 180°.

$$\begin{aligned}\widehat{WVX} + \widehat{WXV} + \widehat{VWX} &= 180^\circ \\ 52^\circ + 52^\circ + \widehat{VWX} &= 180^\circ \\ \widehat{VWX} &= 180^\circ - 52^\circ - 52^\circ \\ \widehat{VWX} &= 76^\circ\end{aligned}$$

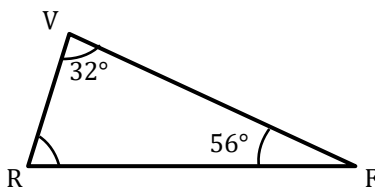
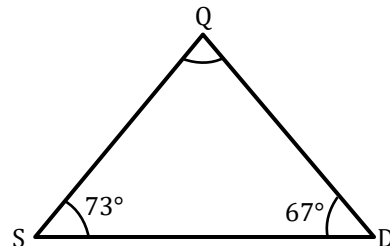


Dans le triangle ZYT,
La somme des angles d'un triangle est égale à 180°.

$$\begin{aligned}\widehat{ZTY} + \widehat{YTZ} + \widehat{ZYT} &= 180^\circ \\ 49^\circ + 90^\circ + \widehat{ZYT} &= 180^\circ \\ \widehat{ZYT} &= 180^\circ - 49^\circ - 90^\circ \\ \widehat{ZYT} &= 41^\circ\end{aligned}$$

Dans le triangle SQD,
La somme des angles d'un triangle est égale à 180°.

$$\begin{aligned}\widehat{QSD} + \widehat{SDQ} + \widehat{SQD} &= 180^\circ \\ 73^\circ + 67^\circ + \widehat{SQD} &= 180^\circ \\ \widehat{SQD} &= 180^\circ - 73^\circ - 67^\circ \\ \widehat{SQD} &= 40^\circ\end{aligned}$$

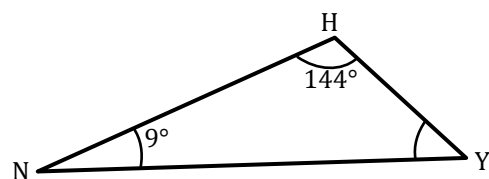


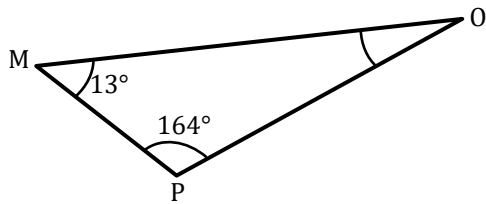
Dans le triangle VRF,
La somme des angles d'un triangle est égale à 180°.

$$\begin{aligned}\widehat{RVF} + \widehat{VFR} + \widehat{VRF} &= 180^\circ \\ 32^\circ + 56^\circ + \widehat{VRF} &= 180^\circ \\ \widehat{VRF} &= 180^\circ - 32^\circ - 56^\circ \\ \widehat{VRF} &= 92^\circ\end{aligned}$$

Dans le triangle NHY,
La somme des angles d'un triangle est égale à 180°.

$$\begin{aligned}\widehat{NHY} + \widehat{HNY} + \widehat{HYN} &= 180^\circ \\ 144^\circ + 9^\circ + \widehat{HYN} &= 180^\circ \\ \widehat{HYN} &= 180^\circ - 144^\circ - 9^\circ \\ \widehat{HYN} &= 27^\circ\end{aligned}$$





Dans le triangle MPO,
La somme des angles d'un triangle est égale à
180°.

$$\widehat{OMP} + \widehat{MPO} + \widehat{MOP} = 180^\circ$$

$$13^\circ + 164^\circ + \widehat{MOP} = 180^\circ$$

$$\widehat{MOP} = 180^\circ - 164^\circ - 13^\circ$$

$$\widehat{MOP} = 3^\circ$$

Dans le triangle BGT,
La somme des angles d'un triangle est égale à
180°.

$$\widehat{BGT} + \widehat{GTB} + \widehat{TBG} = 180^\circ$$

$$50^\circ + 80^\circ + \widehat{TBG} = 180^\circ$$

$$\widehat{TBG} = 180^\circ - 50^\circ - 80^\circ$$

$$\widehat{TBG} = 50^\circ$$

