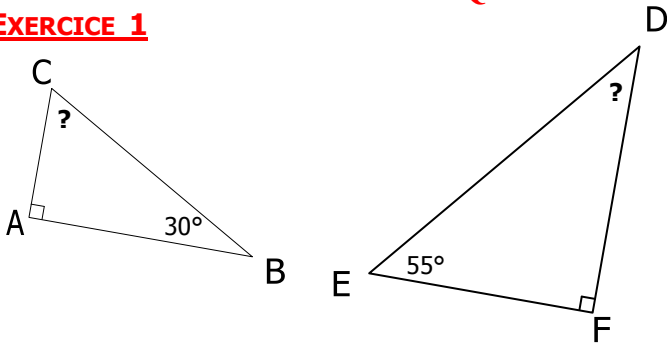


**CORRIGE – M. QUET**

**EXERCICE 1**



$$A + B + C = 180^\circ$$

$$90 + 30 + C = 180$$

$$120 + C = 180$$

$$C = 180 - 120 = 60^\circ$$

$$D + E + F = 180^\circ$$

$$D + 55 + 90 = 180$$

$$D + 145 = 180$$

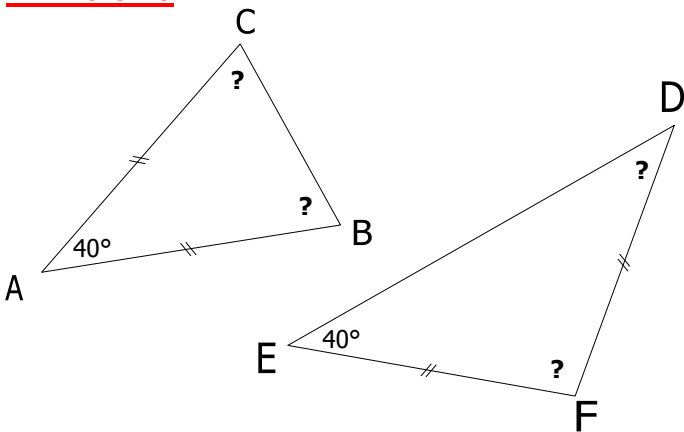
$$D = 180 - 145 = 35^\circ$$

**EXERCICE 2**

ABC est un triangle rectangle en C :  $C = 90^\circ$

	$\hat{A}$	$\hat{B}$	$\hat{C}$
1.	$50^\circ$	$40^\circ$	$90^\circ$
2.	$60^\circ$	$30^\circ$	$90^\circ$
3.	$36^\circ$	$54^\circ$	$90^\circ$
4.	$45^\circ$	$45^\circ$	$90^\circ$
5.	$81^\circ$	$9^\circ$	$90^\circ$

**EXERCICE 3**



$$A + B + C = 180^\circ$$

$$40 + B + C = 180$$

$$B + C = 180 - 40 = 140$$

$$B = C = \frac{140}{2} = 70^\circ$$

$$D = E = 40^\circ$$

$$D + E + F = 180^\circ$$

$$40 + 40 + F = 180$$

$$80 + F = 180$$

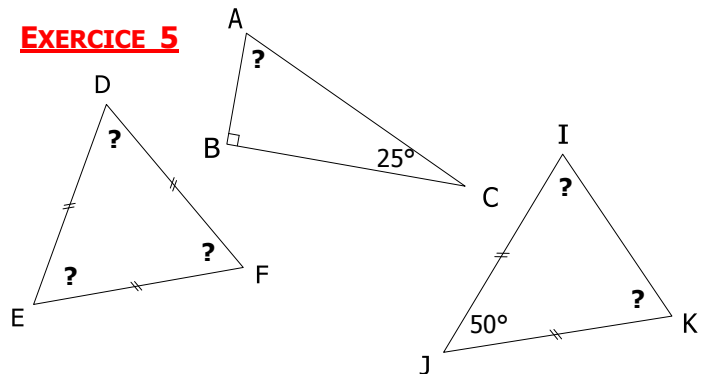
$$F = 180 - 80 = 100^\circ$$

**EXERCICE 4**

DEF est un triangle isocèle en D :  $E = F$

	$\hat{D}$	$\hat{E}$	$\hat{F}$
1.	$130^\circ$	$25^\circ$	$25^\circ$
2.	$20^\circ$	$80^\circ$	$80^\circ$
3.	$20^\circ$	$80^\circ$	$80^\circ$
4.	$90^\circ$	$45^\circ$	$45^\circ$
5.	$120^\circ$	$30^\circ$	$30^\circ$

**EXERCICE 5**



Triangle équilatéral :  
 $D = E = F = 60^\circ$

Triangle rectangle :  
 $A = 180 - 90 - 25$   
 $A = 65^\circ$

Triangle isocèle :  
 $I = K = \frac{130}{2}$   
 $I = K = 65^\circ$

**EXERCICE 6**

	$\hat{A}$	$\hat{B}$	$\hat{C}$
1.	ABC quelconque	$50^\circ$	$75^\circ$ <b><math>55^\circ</math></b>
2.	ABC isocèle en A	<b><math>40^\circ</math></b>	$70^\circ$ <b><math>70^\circ</math></b>
3.	ABC équilatéral	<b><math>60^\circ</math></b>	<b><math>60^\circ</math></b> $60^\circ$
4.	ABC rectangle en B	$30^\circ$	<b><math>90^\circ</math></b> <b><math>60^\circ</math></b>
5.	ABC quelconque	<b><math>60^\circ</math></b>	$28^\circ$ $92^\circ$
6.	ABC isocèle en B	$25^\circ$	<b><math>130^\circ</math></b> <b><math>25^\circ</math></b>
7.	ABC rectangle en C	$50^\circ$	<b><math>40^\circ</math></b> <b><math>90^\circ</math></b>
8.	ABC quelconque	$33^\circ$	$77^\circ$ <b><math>70^\circ</math></b>
9.	ABC isocèle en C	<b><math>70^\circ</math></b>	<b><math>70^\circ</math></b> $40^\circ$
10.	ABC rectangle en A	<b><math>90^\circ</math></b>	<b><math>30^\circ</math></b> $60^\circ$

**EXERCICE 7**

		$\hat{D}$	$\hat{E}$	$\hat{F}$
1.	DEF <b>quelconque</b>	30°	80°	<b>70°</b>
2.	DEF <b>isocèle en F</b>	25°	<b>25°</b>	130°
3.	DEF <b>rectangle en E</b>	30°	90°	<b>60°</b>
4.	DEF <b>équilatéral</b>	<b>60°</b>	60°	60°
5.	DEF <b>isocèle en E</b>	30°	<b>120°</b>	30°
6.	DEF <b>rectangle en D</b>	<b>90°</b>	36°	54°
7.	DEF <b>isocèle en D</b>	70°	55°	<b>55°</b>
8.	DEF <b>quelconque</b>	<b>157°</b>	11°	12°
9.	DEF <b>isocèle en F</b>	59°	<b>59°</b>	62°
10.	DEF <b>rectangle en F</b>	40°	50°	<b>90°</b>