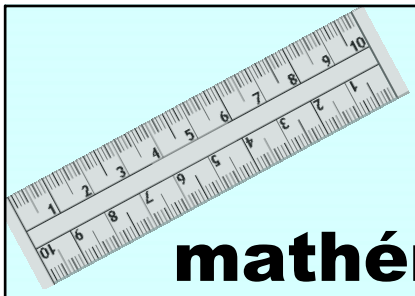
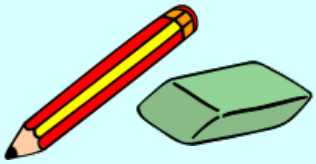
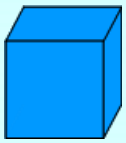




mathématiques 10e année

le mercredi 29 novembre 2023

Mme Barton

mai 30-10:05

Géométrie, Mesure, Finances 10

But: Géométrie - G5

Démontrer sa compréhension des angles, y compris les angles aigus, droits, obtus, plats et réflexes en : dessinant, répliquant et construisant, divisant en deux parties égales et en résolvant des problèmes.

mai 31-08:43

Géométrie, Mesure, Finances 10

But: Géométrie - G4

Résoudre des problèmes portant sur des lignes parallèles, perpendiculaires et transversales et sur les paires d'angles formés entre elles.

mai 31-08:43

Les angles et les droites

mai 30-10:06

Les angles et les droites

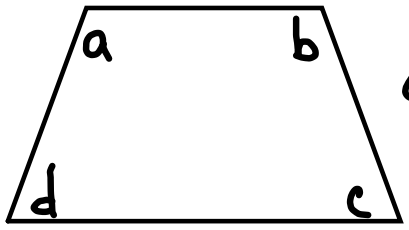
Vocabulaire nécessaire

mai 30-10:06

La somme des angles d'un <u>triangle</u> est <u>180 degrés</u>.

$a + b + c = 180^\circ$

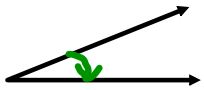
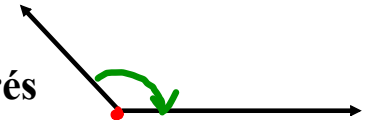
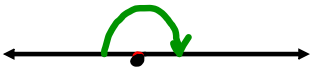
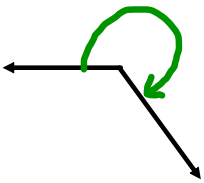
La somme des angles d'un <u>quadrilatère</u> est <u>360 degrés</u>.



$a + b + c + d = 360^\circ$

mai 28-16:26

Les angles

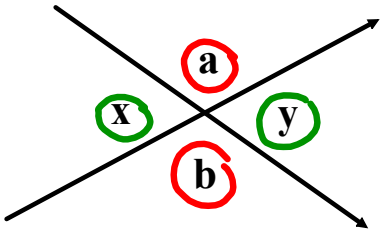
Type d'angle	Mesure	Exemple
angle aigu	entre 0 et 90 degrés	
angle droit	90 degrés	
angle obtus	entre 90 et 180 degrés	
angle plat	180 degrés	
angle rentrant (ou angle réflexe)	entre 180 et 360 degrés	

mai 23-12:20

Les angles

angles opposés

les angles opposés sont toujours égaux



angle x = angle y

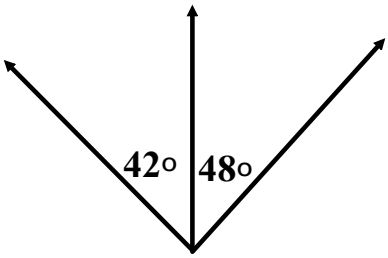
angle a = angle b

mai 23-19:35

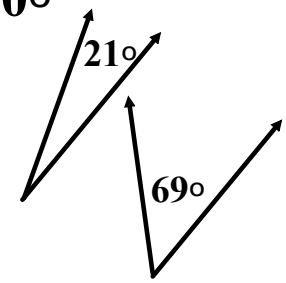
Les angles

angles complémentaires

deux angles qui ont une somme de 90°



ou

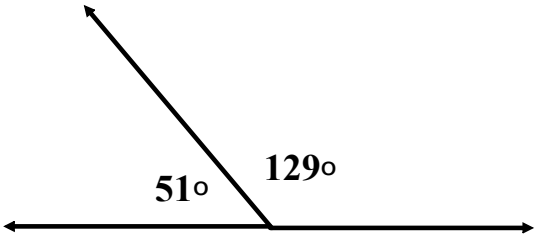


mai 23-19:45

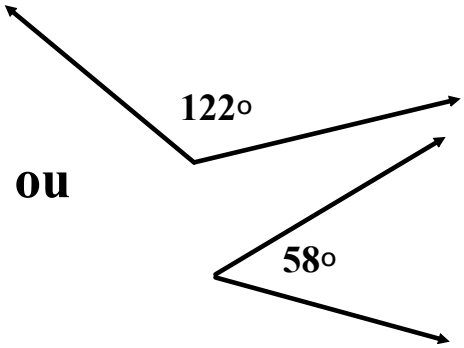
Les angles

angles supplémentaires

deux angles qui ont une somme de 180°



ou

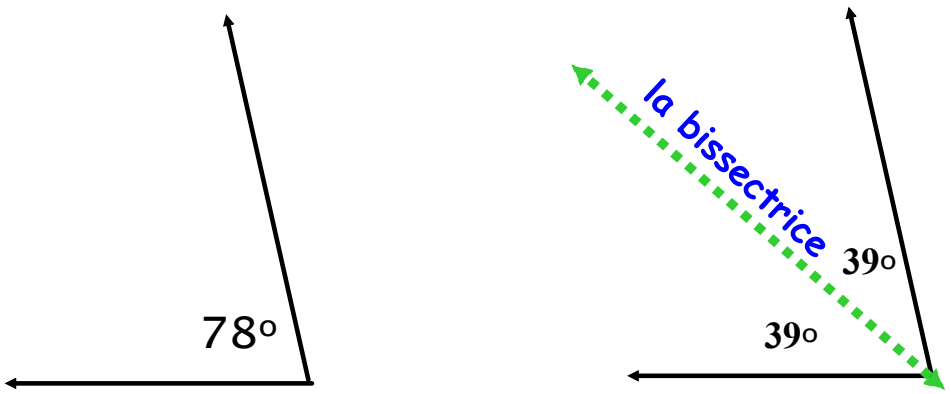


mai 23-19:51

Les angles

la bissectrice d'un angle

segment de droite qui sépare un angle en deux parties égales



mai 23-19:51

Exercices

Les angles

Page # 1

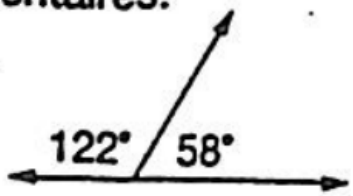
Questions 1 à 5

mai 30-10:13

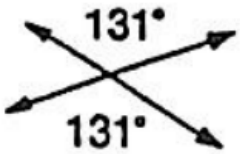
Exercices PAGE #1

1. Classe les angles suivant qu'ils sont opposés, complémentaires ou supplémentaires.

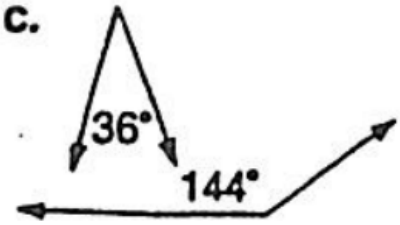
a.



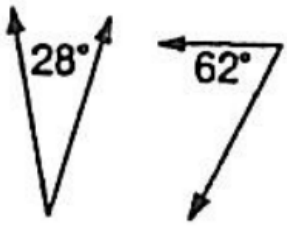
b.



c.



d.



nov. 25-09:18

Réponses - Exercices - Page # 1

Question 1.

a) supplémentaires
b) opposés
c) supplémentaires
d) complémentaires

mai 30-10:09

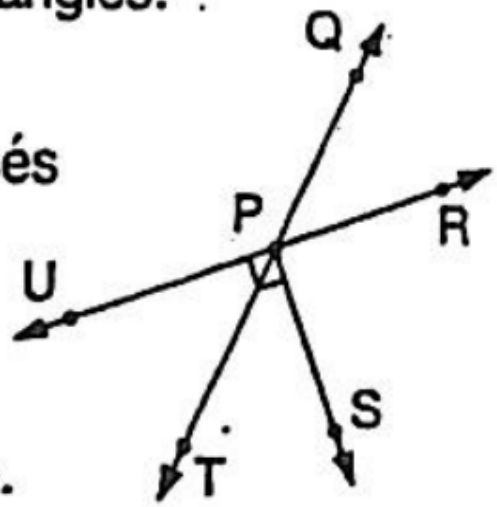
2. Nomme l'angle ou les angles.

a. droit b. plat

c. rentrant d. opposés

e. complémentaires

f. supplémentaires



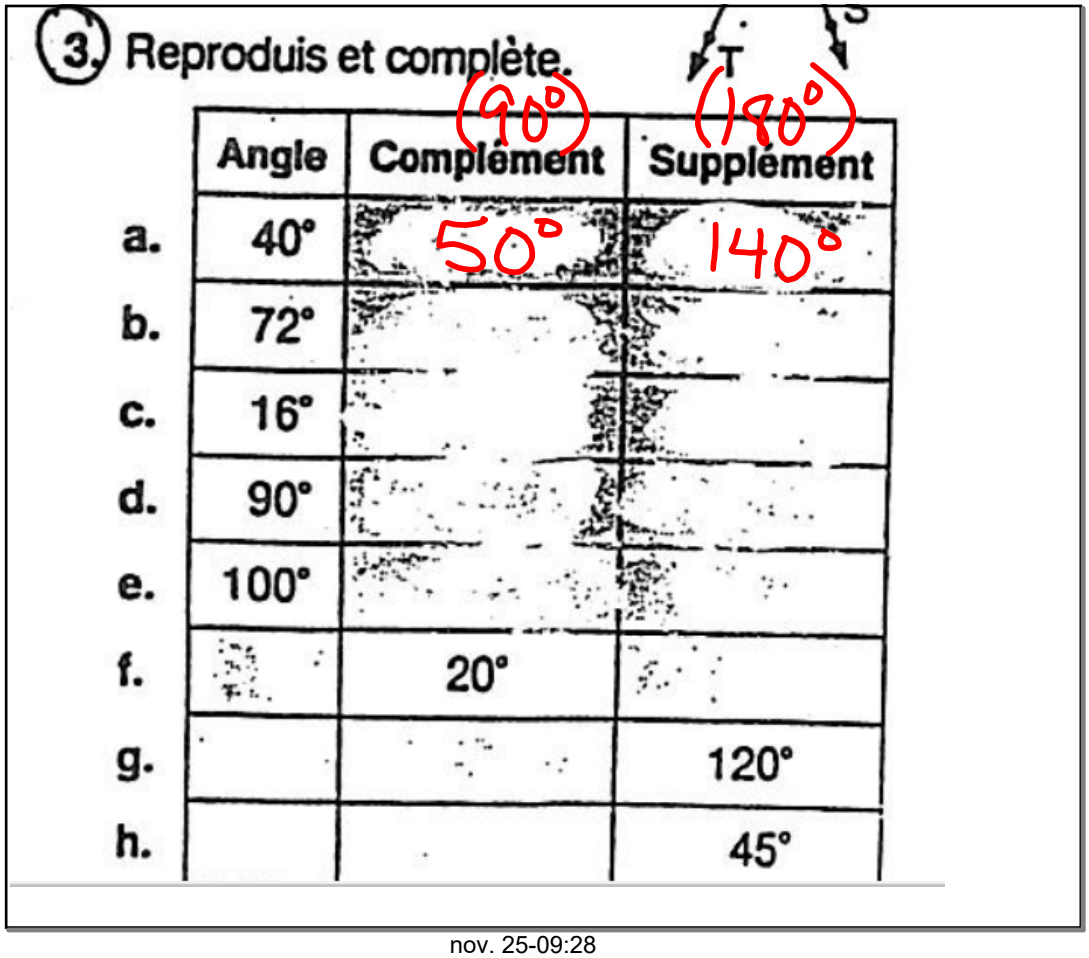
3. Reproduis et complète.

nov. 25-09:19

Question 2.

a) angle droit - SPU ou RPS
b) angle plat - UPR ou QPT
c) angle rentrant - RPQ ou SPR
d) angles opposés - QPR et UPT
e) angles complémentaires - SPT et TPU
f) angles supplémentaires - UPQ et QPR
- UPQ et TPU

mai 30-10:11



nov. 25-09:28

Question 3.

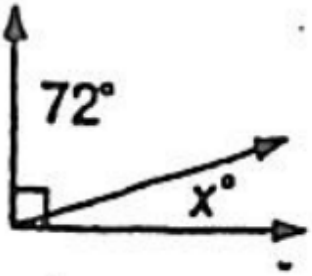
90° 180°

Angle	Complément	Supplément
40°	50°	140°
72°	18°	108°
16°	74°	164°
90°	0°	90°
100°	----	80°
70°	20°	110°
60°	30°	120°
135°	----	45°

nov. 25-09:28

4. Combien mesurent les angles inconnus ?

a.



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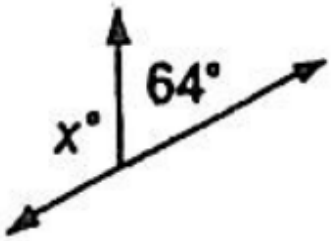
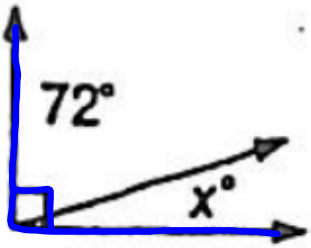


nov. 25-09:29

4. Combien mesurent les angles inconnus ?

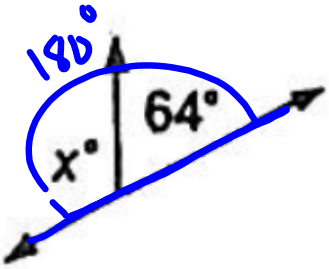
a.



$x^\circ = 18^\circ$

$90^\circ - 72^\circ = 18^\circ$

b.

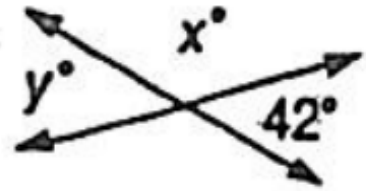


$x^\circ = 116^\circ$

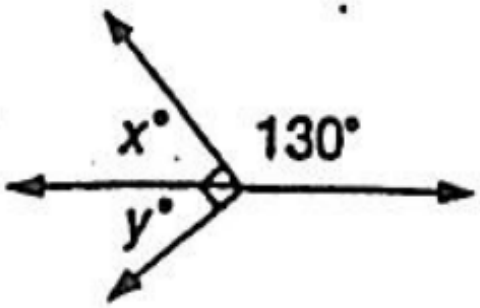
$180^\circ - 64^\circ = 116^\circ$

nov. 25-09:29

c.

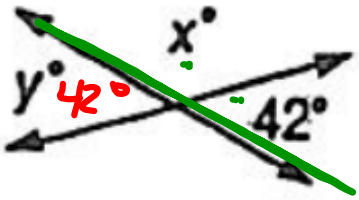


d.



nov. 25-09:29

c.



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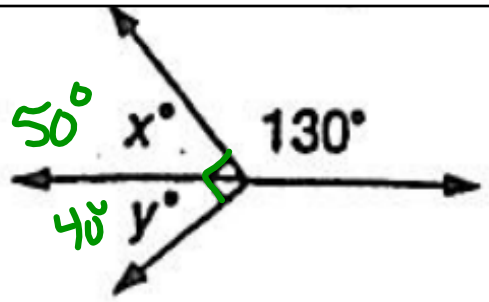


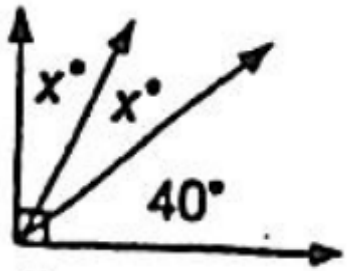
$y^\circ = 42^\circ$

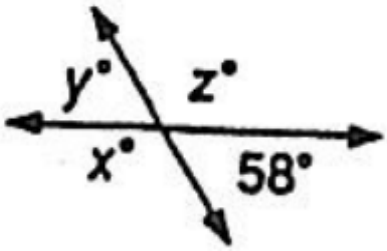
$x^\circ = 138^\circ$

$x^\circ = 50^\circ$

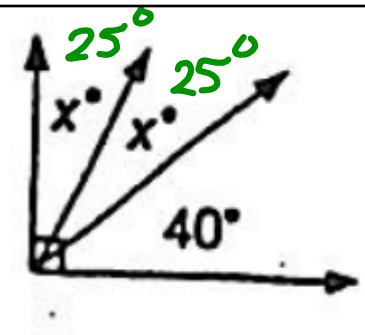
$y^\circ = 40^\circ$

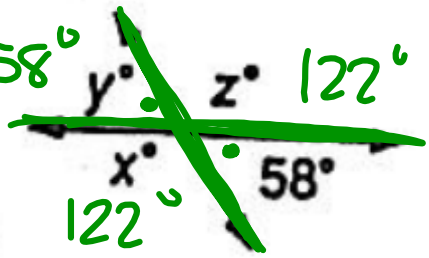
nov. 25-09:29

e. 

f. 

nov. 25-09:30

e. 

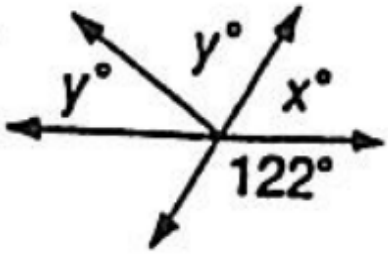
f. 

180°

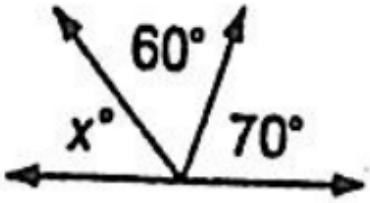
$x^\circ = 25^\circ$

nov. 25-09:30

g.

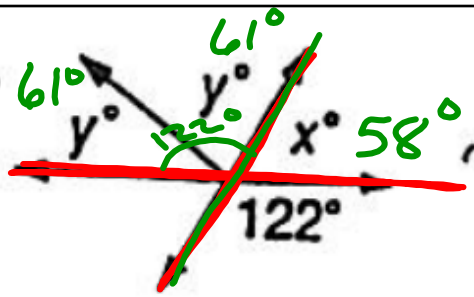


h.



nov. 25-09:30

g.



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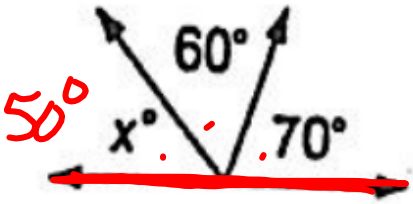


$= 180^\circ$

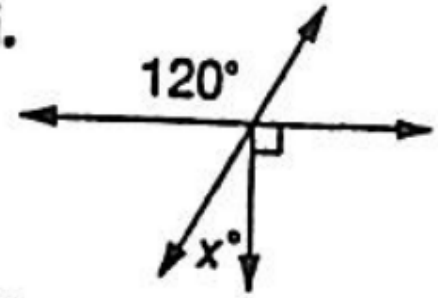
$122^\circ + x^\circ = 180^\circ$

(58°)

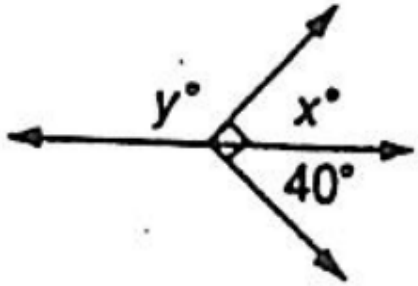
$x^\circ = 50^\circ$

nov. 25-09:30

i.

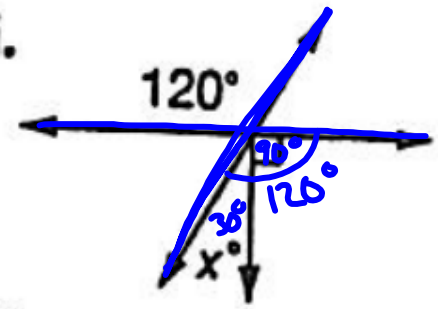


j.



nov. 25-09:30

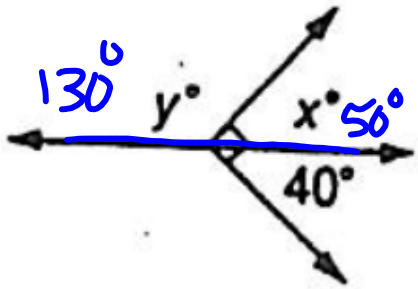
i.



$120^\circ = 90^\circ + x^\circ$

$x^\circ = 30^\circ$

j.

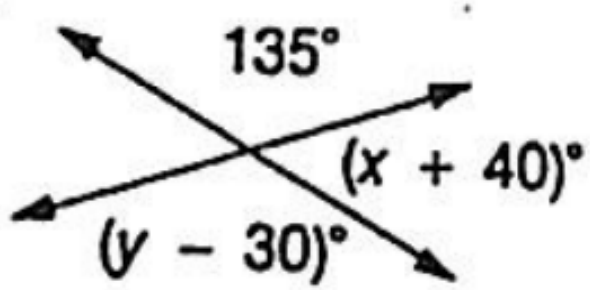


$x^\circ = 50^\circ$

$y^\circ = 130^\circ$

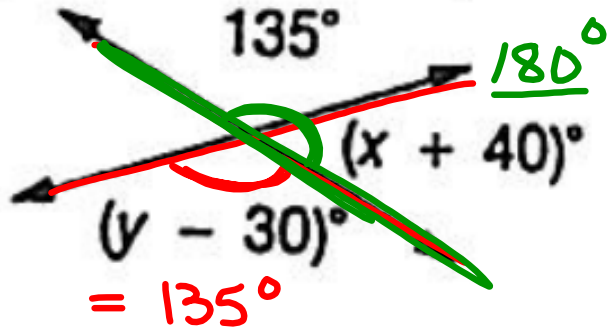
nov. 25-09:30

k.



nov. 25-09:31

k.



$= 135^\circ$

$y - 30^\circ = 135^\circ$

$165^\circ - 30^\circ = 135^\circ$

$y^\circ = 165^\circ$

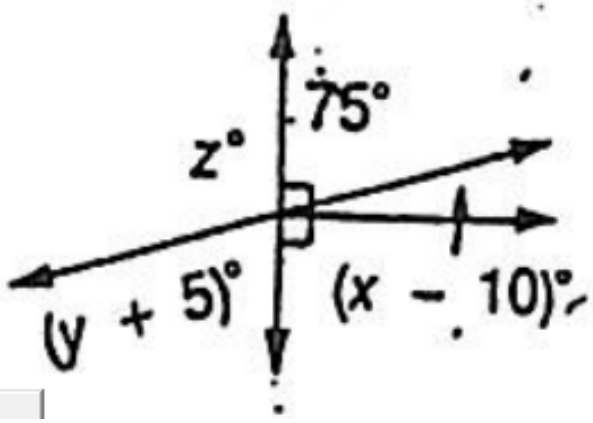
$x^\circ + 40^\circ + 135^\circ = 180^\circ$

$x^\circ + 175^\circ = 180^\circ$

$x^\circ = 5^\circ$

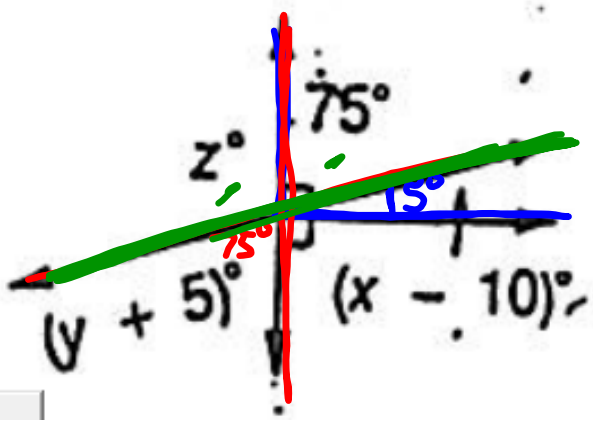
nov. 25-09:31

1.



nov. 25-09:31

1.



$75 + 15^\circ = 90$

$x - 10 = 15$

$x = 25^\circ$

$y + 5 = 75^\circ$

$70^\circ + 5^\circ = 75^\circ$

$y^\circ = 70^\circ$

$z^\circ = 105^\circ$

nov. 25-09:31

Question 4.

a) x = 18°

b) x = 116°

c) x = 138° et y = 42°

d) x = 50° et y = 40°

e) x = 25°

f) x = 122° et y = 58° et z = 122°

g) x = 58° et y = 61°

h) x = 50°

i) x = 30°

j) x = 50° et y = 130°

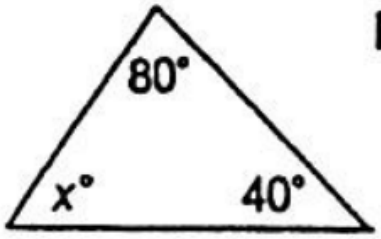
k) x = 5° et y = 165°

l) x = 25° et y = 70° et z = 105°

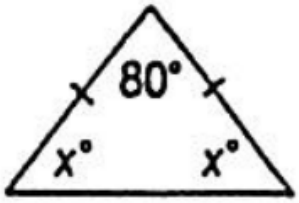
nov. 25-09:55

5. Calcule la mesure de l'angle inconnu.

a.



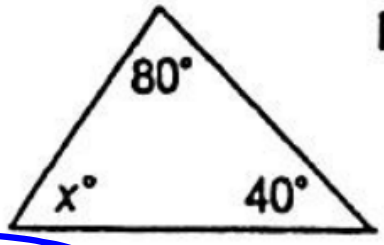
b.



nov. 25-09:31

5. Calcule la mesure de l'angle inconnu.

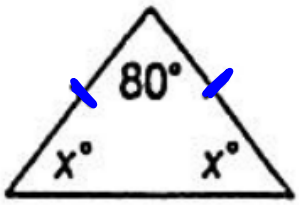
a.



$x° = 60°$

Total : 180°

b.



isocèles

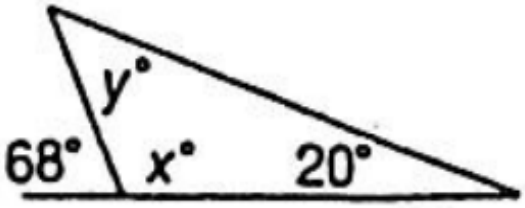
$x + x = 100°$

$2x = 100$

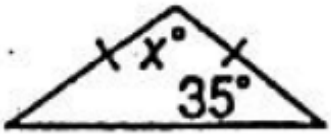
$x = 50°$

nov. 25-09:31

c.

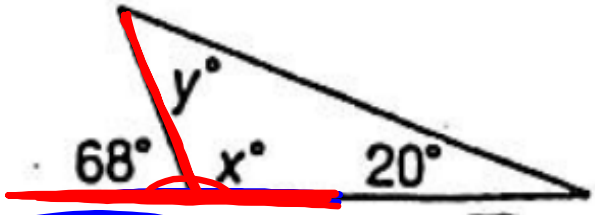


d.



nov. 25-09:33

c.



$x^\circ = 112^\circ$

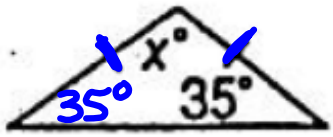
$+\ 20$

132

$y^\circ = 48^\circ$

d.

$35^\circ + 35^\circ + 110^\circ = 180^\circ$

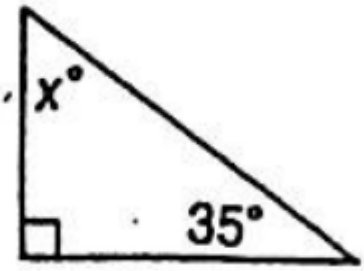


$x^\circ = 110^\circ$

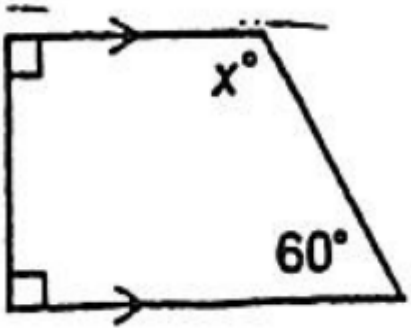
triangle isocèles

nov. 25-09:33

e.

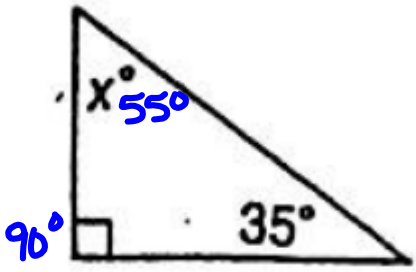


f.



nov. 25-09:33

e.

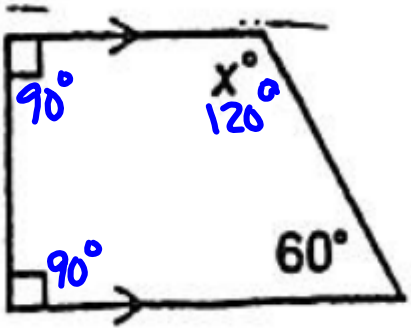


$x^\circ = 55^\circ$

$90^\circ + 35^\circ + 55^\circ$

$= 180^\circ$

f.



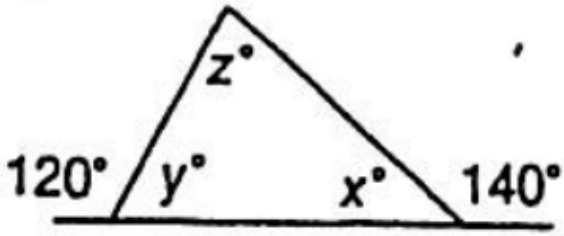
Total: 360°

$x^\circ = 120^\circ$

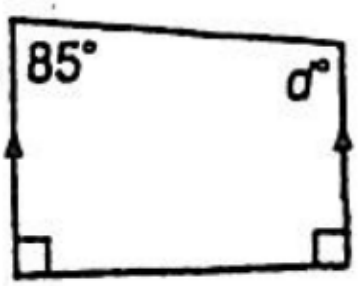
Quadrilatère

nov. 25-09:33

g.



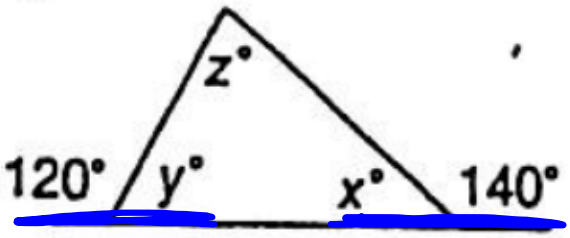
h.



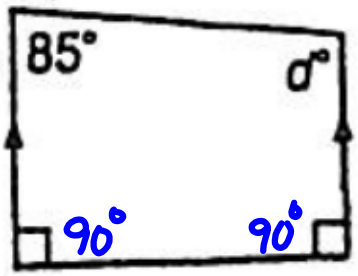
i.

nov. 25-09:34

g.



h.



$x^\circ = 40^\circ$

$y^\circ = 60^\circ$

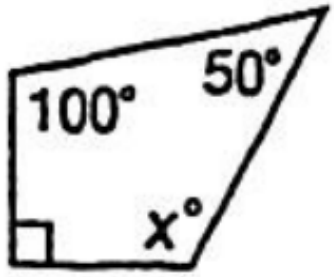
$z^\circ = 80^\circ$

$d^\circ = 95^\circ$

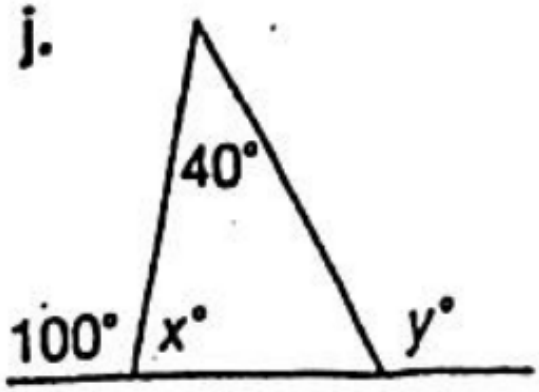
Total: 360°

nov. 25-09:34

i.

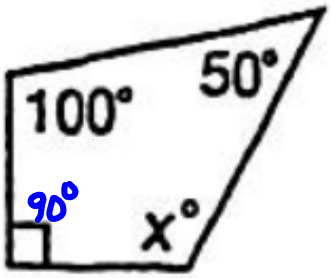


j.



nov. 25-09:34

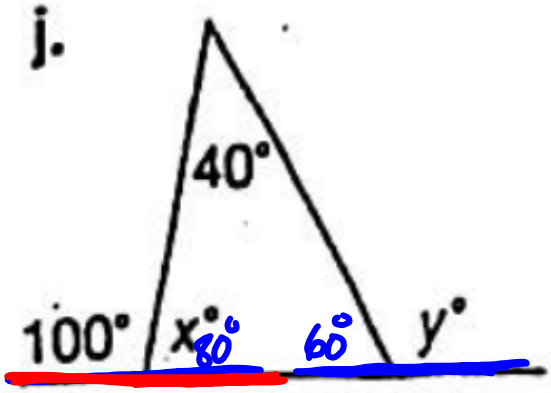
i.



$x^\circ = 120^\circ$

Total: 360°

j.



$x^\circ = 80^\circ$

$y^\circ = 120^\circ$

nov. 25-09:34

Question 5.

a) $x = 60^\circ$

b) $x = 50^\circ$

c) $x = 112^\circ$ et $y = 48^\circ$

d) $x = 110^\circ$

e) $x = 55^\circ$

f) $x = 120^\circ$

g) $x = 40^\circ$ et $y = 60^\circ$ et $z = 80^\circ$

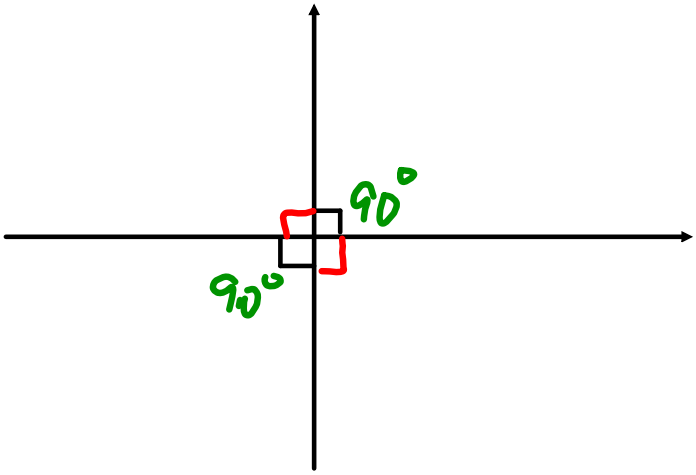
h) $d = 95^\circ$

i) $x = 120^\circ$

j) $x = 80^\circ$ et $y = 120^\circ$

nov. 25-09:56

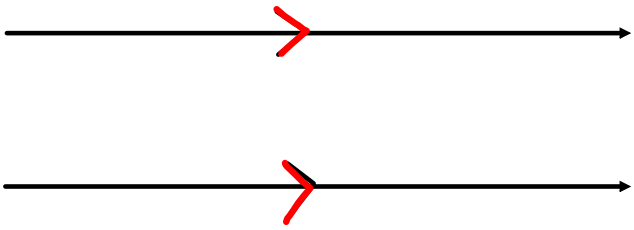
Les droites perpendiculaires



(droites qui se coupent aux angles droits)

mai 29-20:12

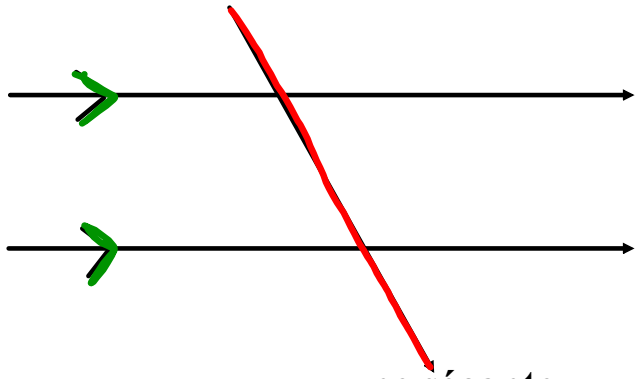
Les droites parallèles



mai 29-20:13

une sécante

une droite qui coupe deux droites parallèles

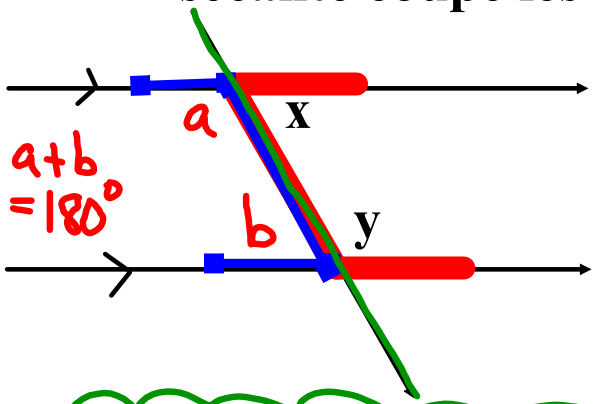


mai 29-20:13

Les angles

angles co-internes

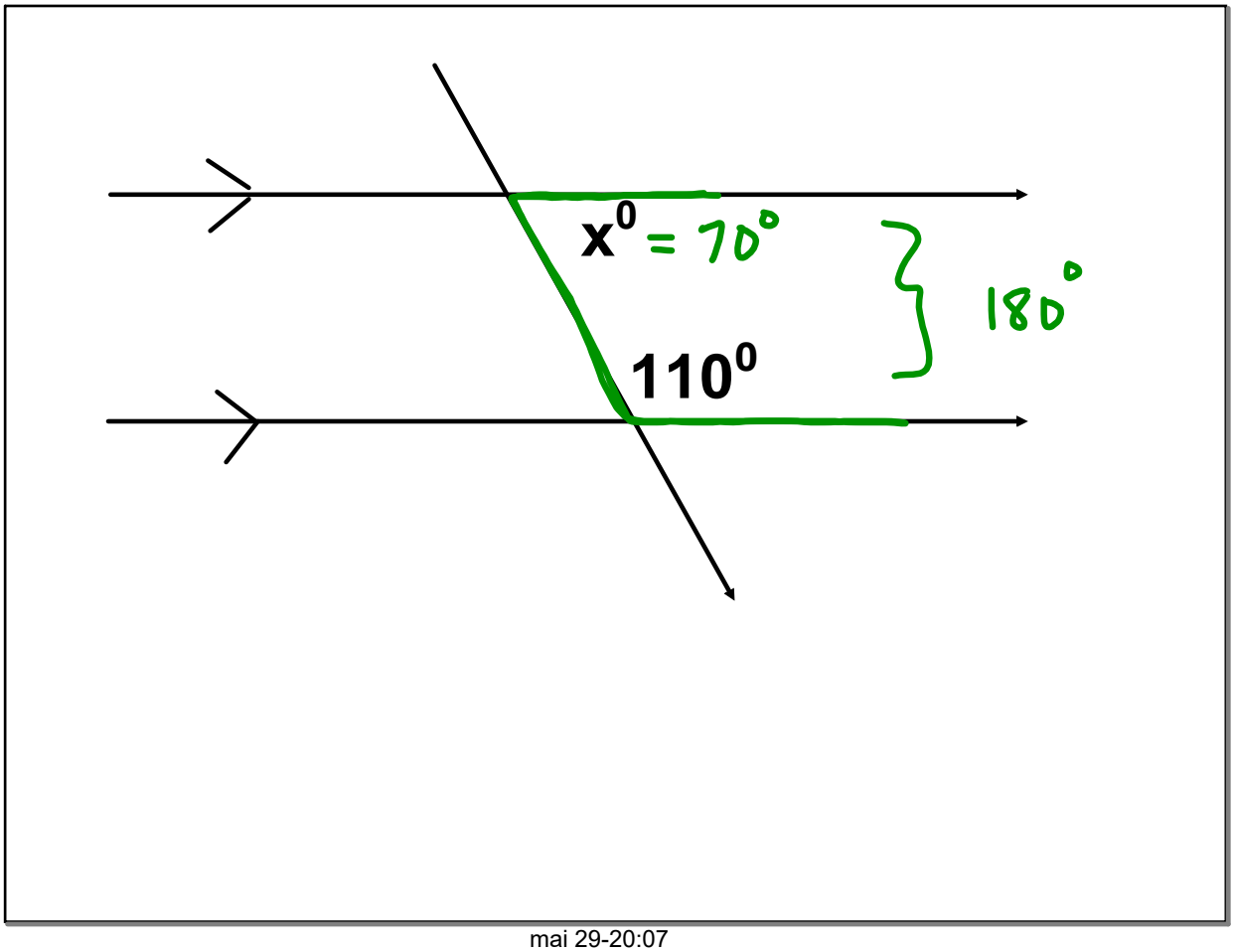
angles qui forment un crochet (C) quand une sécante coupe les droites parallèles



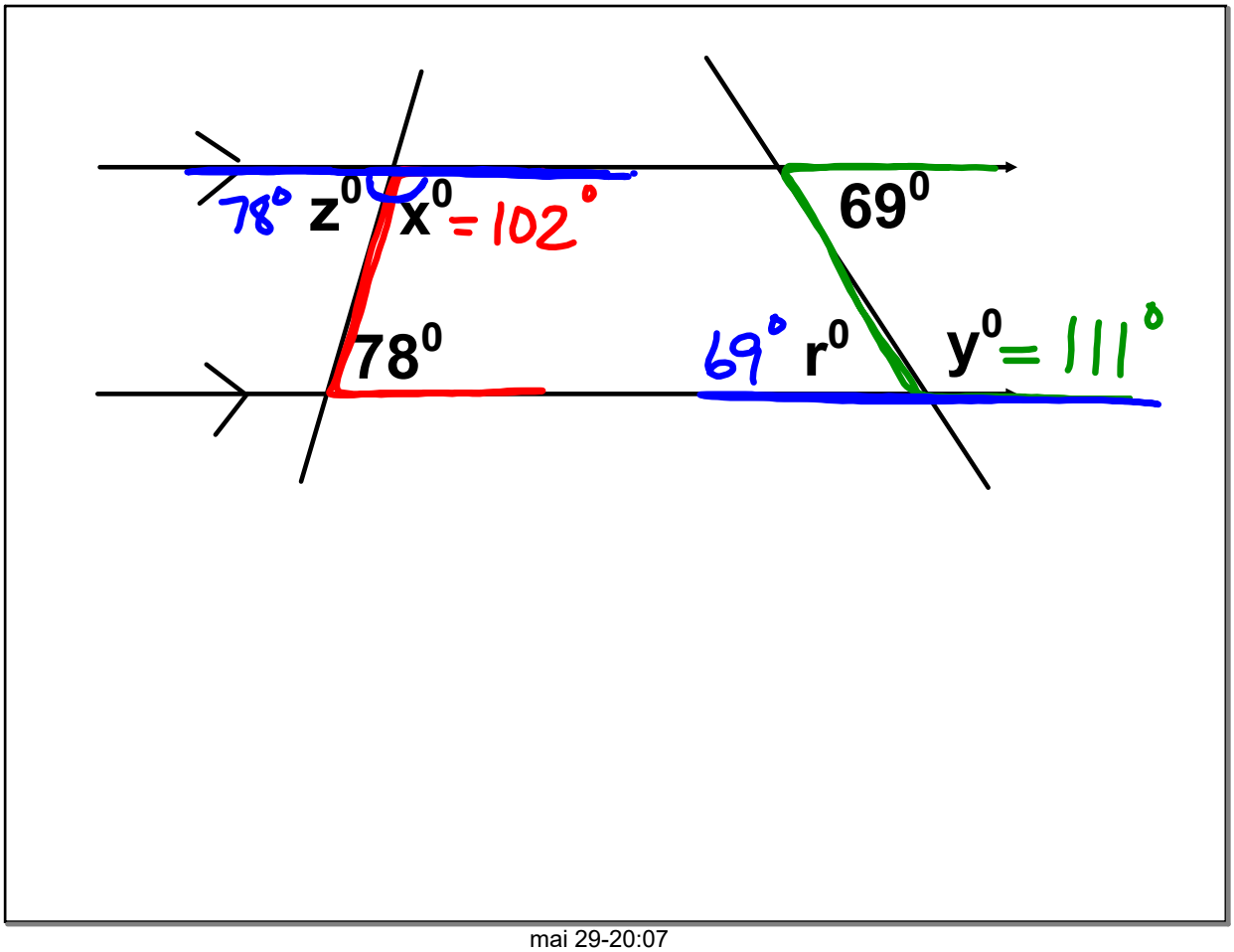
$$x + y = 180^o$$

les angles co-internes ont une somme de 180°

mai 23-20:09



mai 29-20:07

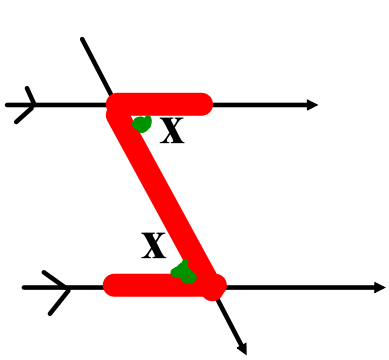


mai 29-20:07

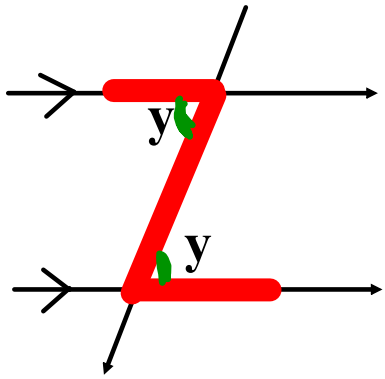
Les angles

angles alternes internes

angles qui forment un "Z" quand une sécante coupe les droites parallèles



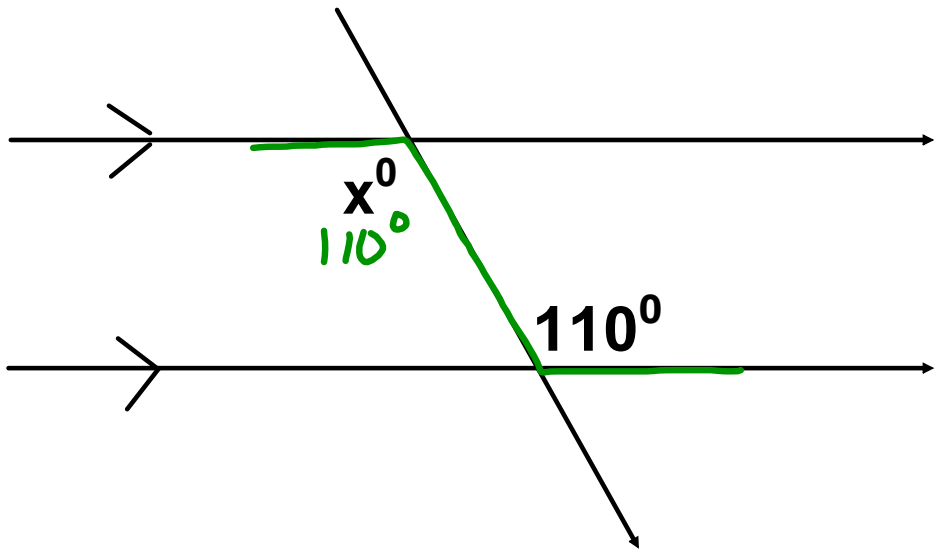
x = x



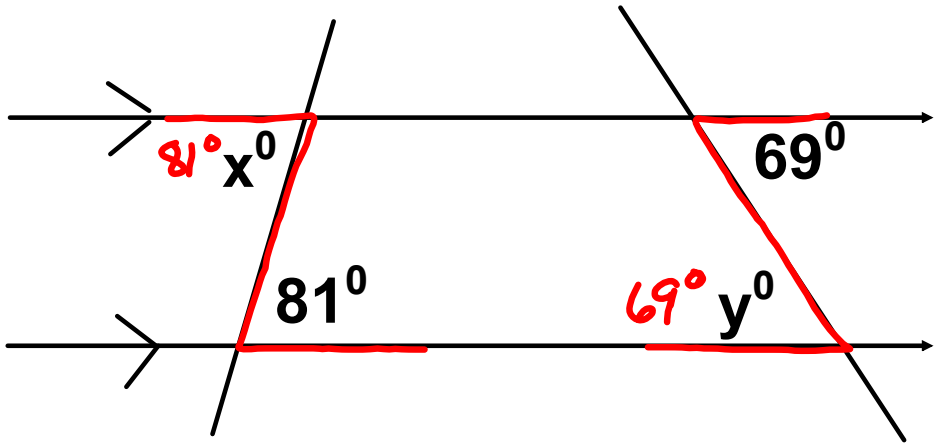
y = y

les angles alternes internes sont toujours égaux

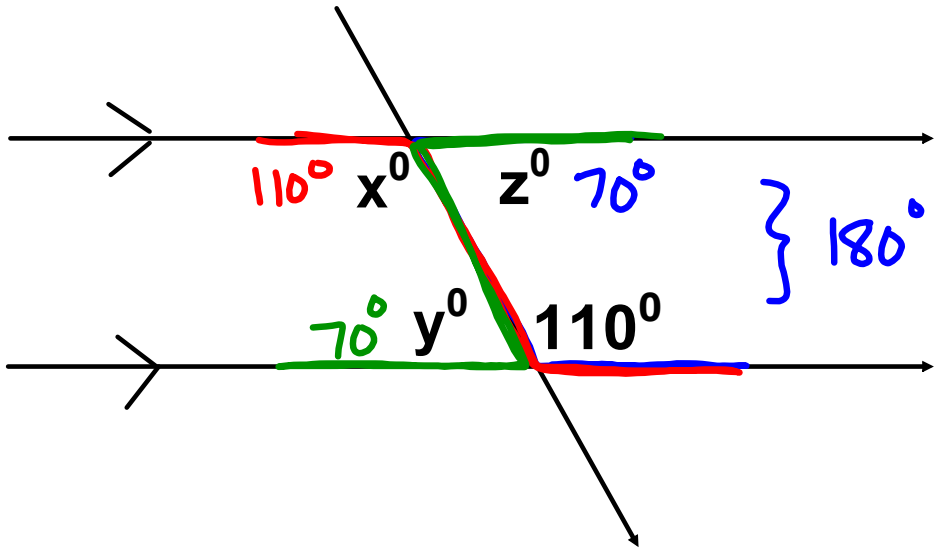
mai 23-20:18



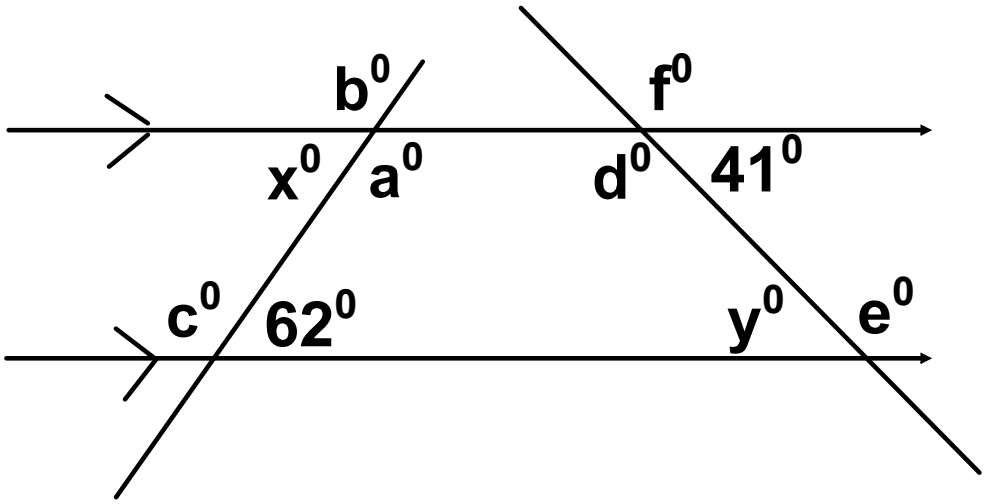
mai 29-20:08



mai 29-20:08



mai 29-20:08

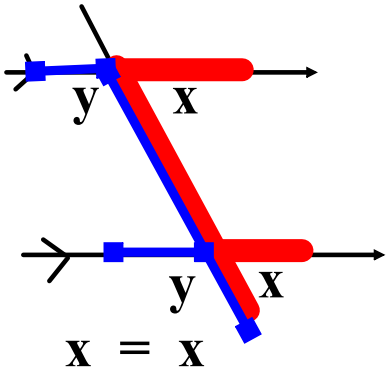


mai 29-20:08

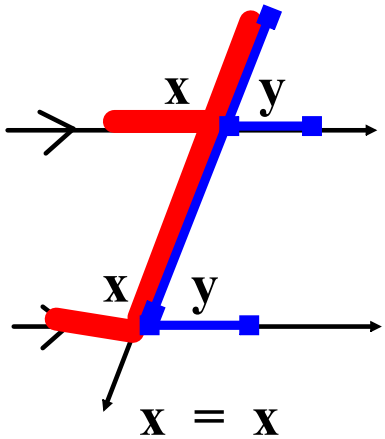
Les angles

angles correspondants

angles qui forment un "F" quand une sécante coupe les droites parallèles



$x = x$
$y = y$



$x = x$
$y = y$

les angles correspondants sont toujours égaux

mai 23-20:25