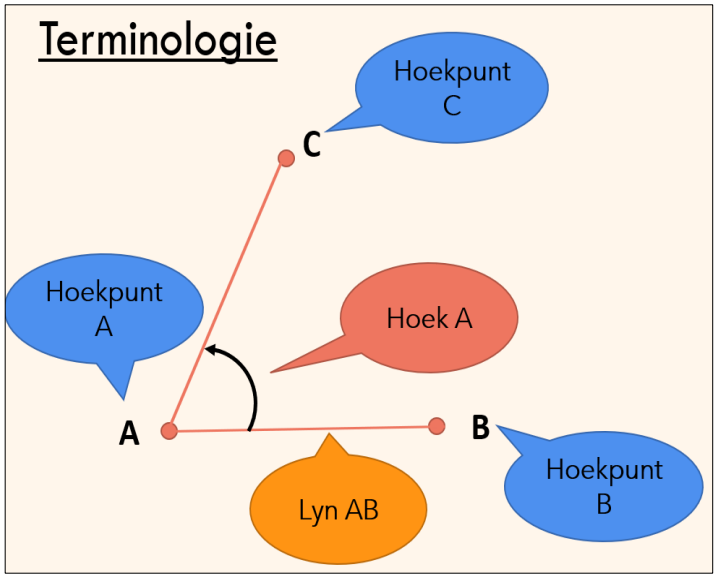
GRAAD 8

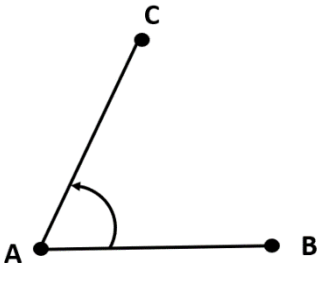
Meetkunde van reguit lyne



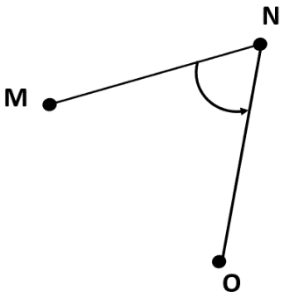
Benoeming van hoeke:

Voorbeeld 1

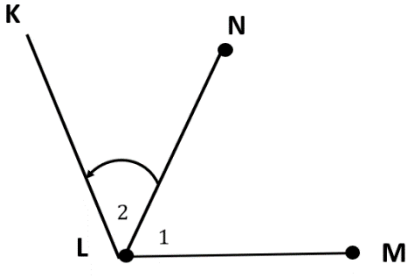
1.1)

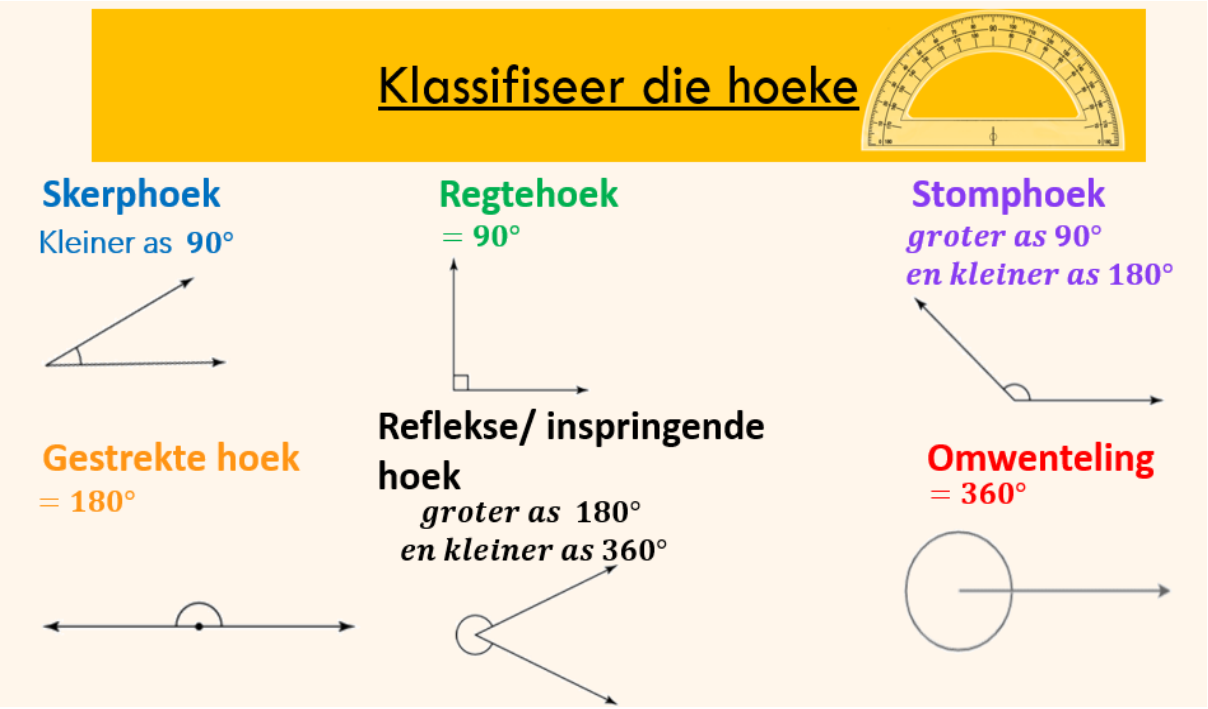


1.2)



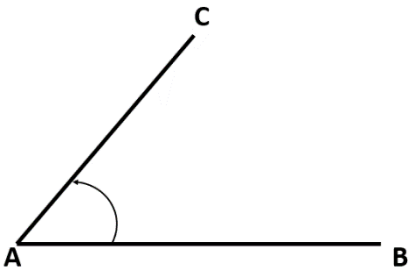
1.3)





Voorbeeld 2

2.1)



2.1.1) Wat is die grootte van $B\hat{A}C$?

2.1.2) Watter soort hoek is $B\hat{A}C$?

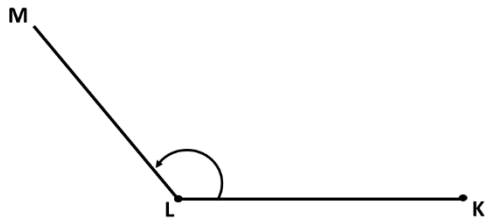
2.2)



2.2.1) Wat is die grootte van $D\hat{E}F$?

2.2.2) Watter soort hoek is $D\hat{E}F$?

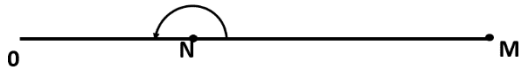
2.3)



2.3.1) Wat is die grootte van $K\hat{L}M$?

2.3.2) Watter soort hoek is $K\hat{L}M$?

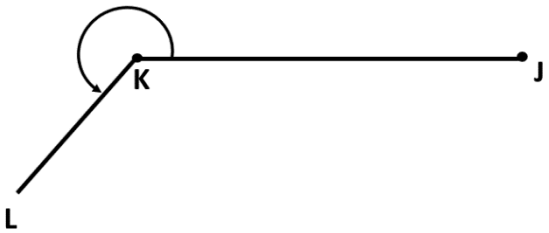
2.4)



2.4.1) Wat is die grootte van $M\hat{N}O$?

2.4.2) Watter soort hoek is $M\hat{N}O$?

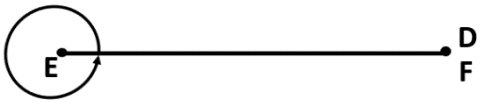
2.5)



2.5.1) Wat is die grootte van $J\hat{K}L$?

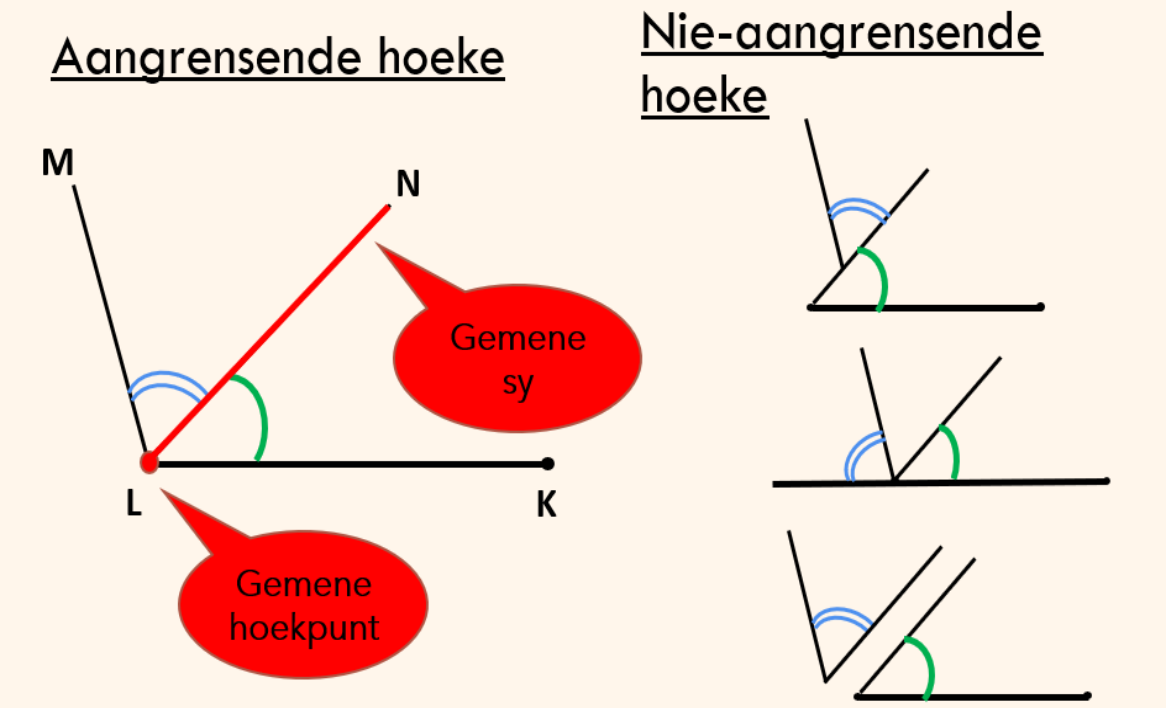
2.5.2) Watter soort hoek is$J\hat{K}L$?

2.6)



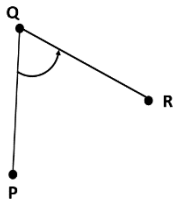
2.6.1) Wat is die grootte van $D\hat{E}F$?

2.6.2) Watter soort hoek is $D\hat{E}F$?



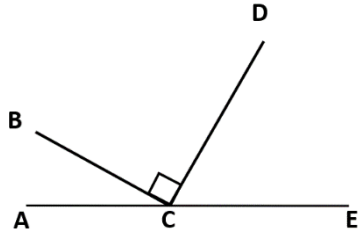
OEFENING 1

1) Noem die volgende:



a) 'n hoekpunt?
b) 'n lyn?
c) 'n hoek?

2) Noem die volgende:



a) 'n skerphoek?
b) 'n regtehoek?
c) 'n stomphoek?
d) 'n paar aangrensende hoeke?
e) 'n paar nie-aangrensende hoeke?

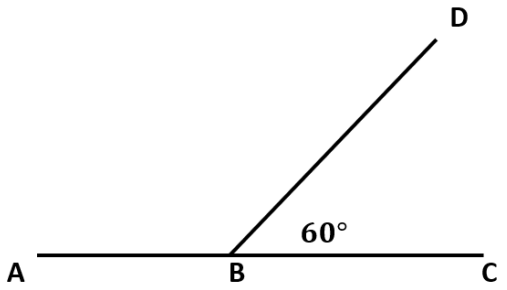
Hoeke op 'n reguit lyn

$(\angle' e\ op\ reguit\ lyn)$

Doen ondersoek 1

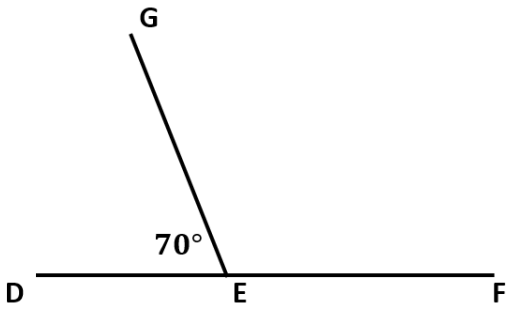
Voorbeeld 3

3.1) Bereken die grootte van $A\hat{B}D$.



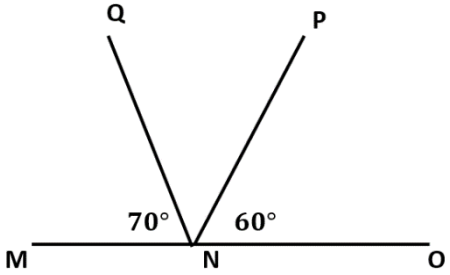
Bewering	Rede

3.2) Bereken die grootte van $G\hat{E}F$.



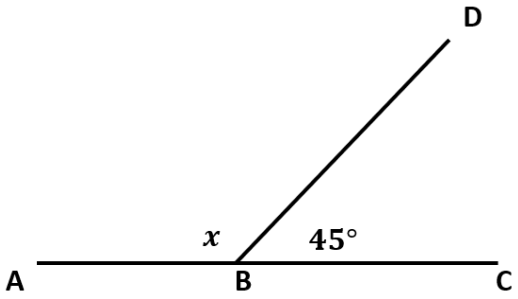
Bewering	Rede

3.3) Bereken die grootte van $Q\hat{N}P$.



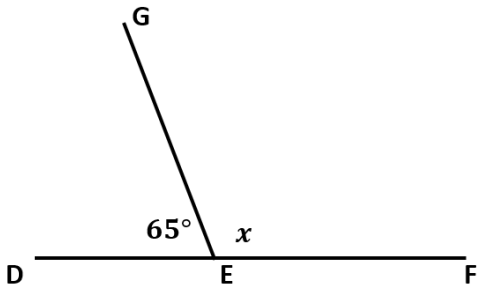
Bewering	Rede

3.4) Bereken die grootte van x.



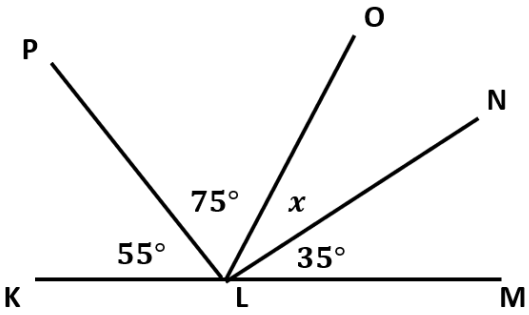
Bewering	Rede

3.5) Bereken die grootte van x.



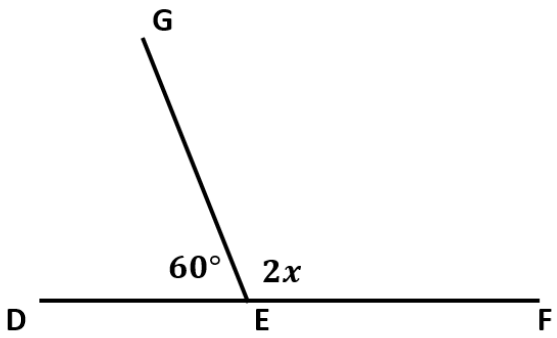
Bewering	Rede

3.6) Bereken die grootte van x.



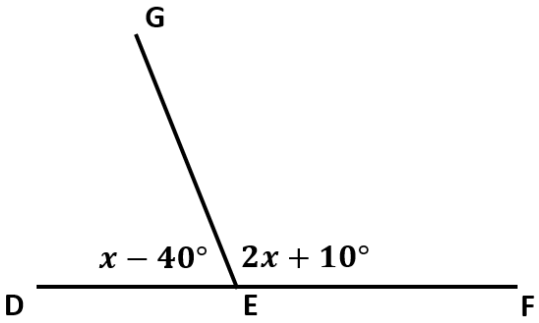
Bewering	Rede

3.7) Bereken die grootte van x.



Bewering	Rede

3.8) Bereken die grootte van x.



Bewering	Rede





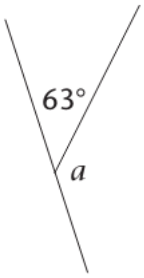




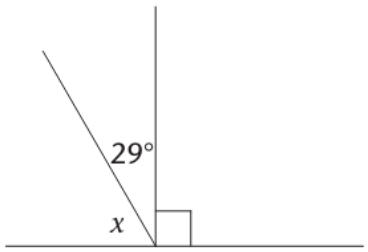
OEFENING 2 (Sasol Inzalo)

Bereken die onbekende in elk van die volgende. Onthou om redes te verskaf.

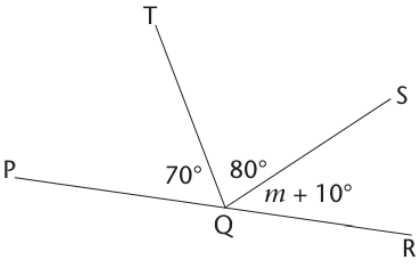
1)



2)

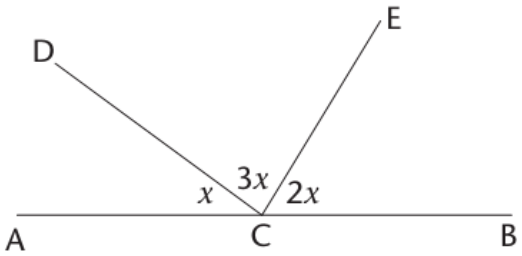


3)



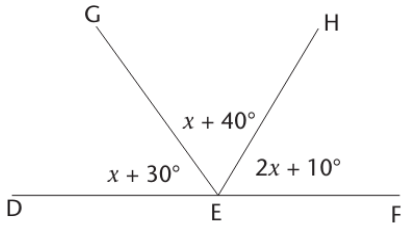
3.1) Bereken die waarde van m.
3.2) Bepaal die waarde van $S\hat{Q}R$

4)



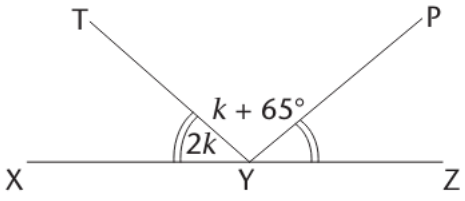
4.1) Bereken die waarde van x.
4.2) Bepaal die waarde van $D\hat{C}E$.

5) Bereken die waarde van x.



6) Bereken die waarde van k.

$T\hat{Y}X = P\hat{Y}Z$

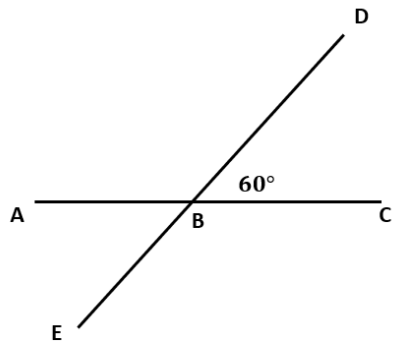


Regoorstaande hoeke $(regoorst.\angle^e =)$ en Hoeke om 'n punt $(\angle^e\ om\ 'n\ pt)$

Doen ondersoek 2

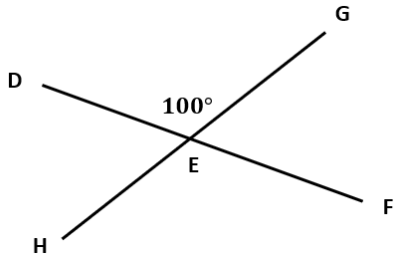
Voorbeeld 4

4.1) Bereken die grootte van $A\hat{B}E$.



Bewering	Rede

4.2)

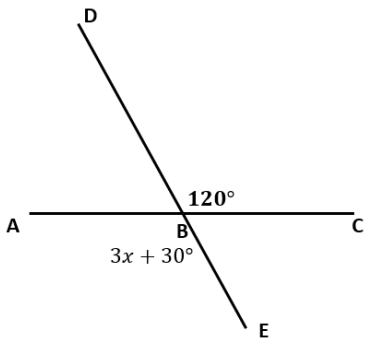


Bewering	Rede

a) Bereken die grootte van $H\hat{E}F$.

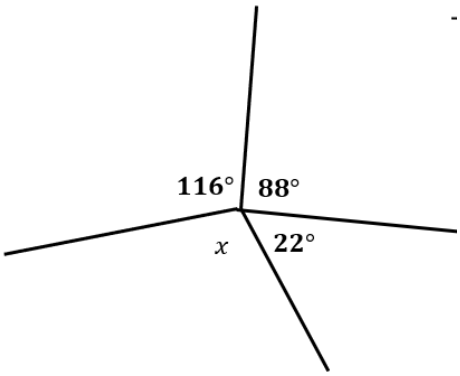
b) Bereken die grootte van $H\hat{E}D$.

4.3) Bereken die grootte van x.



Bewering	Rede

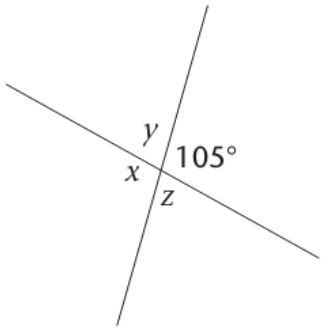
4.4) Bereken die grootte van x.



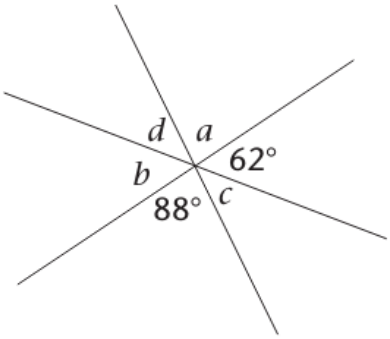
Bewering	Rede

OEFENING 3 (Sasol Inzalo)

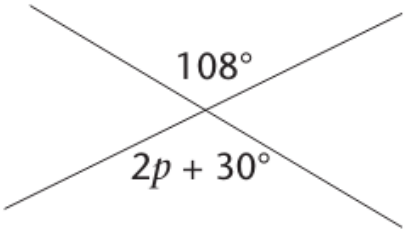
1) Bereken die waardes van x, y en z.



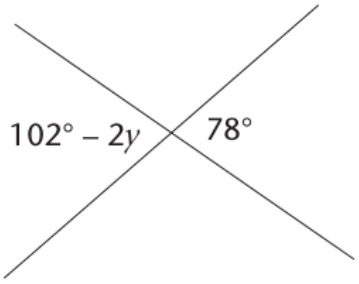
2) Bereken die waardes van a, b, c en d.



3) Bereken die waardes van p.

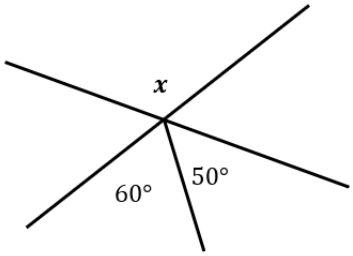


4) Bereken die waardes van y.



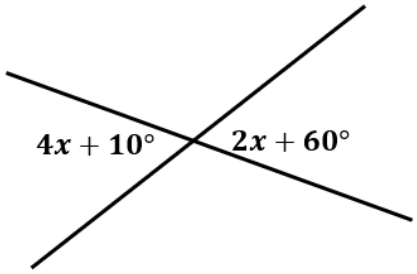
Voorbeeld 5

5.1) Bereken die grootte van x.



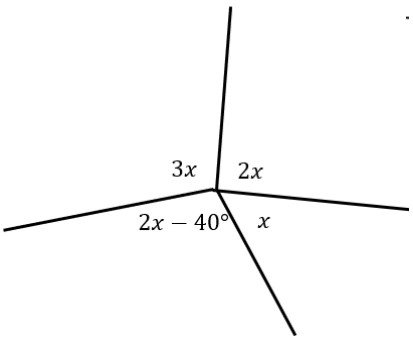
Bewering	Rede

5.2) Bereken die grootte van x.



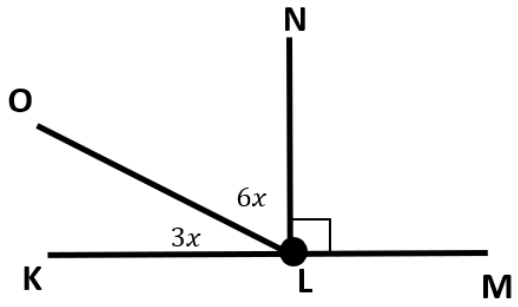
Bewering	Rede

5.3) Bereken die grootte van x



Bewering	Rede

5.4) Bereken die grootte van x

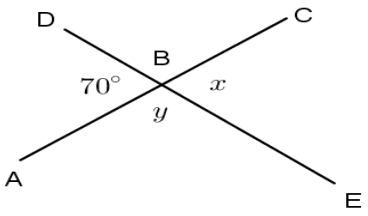


Bewering	Rede

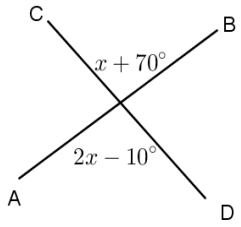
OEFENING 4

Bepaal die waarde van x en y in elk van die volgende gevalle. Onthou om redes te verskaf vir jou antwoorde.

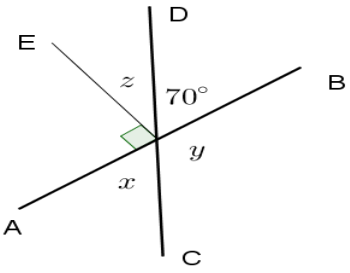
1)



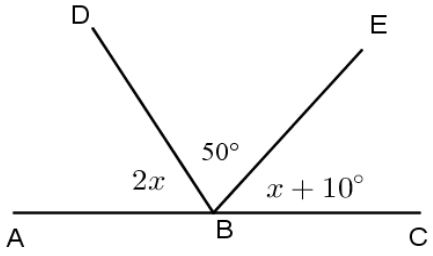
2)



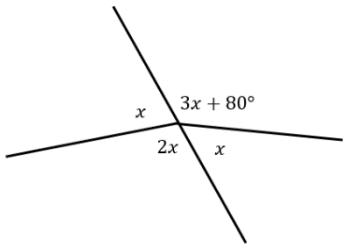
3)



4)

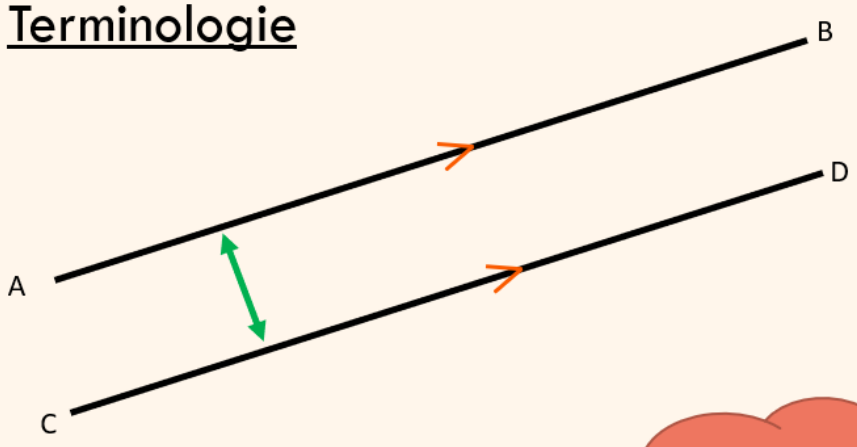


5)



Parallelle lyne en FUN hoeke

Terminologie







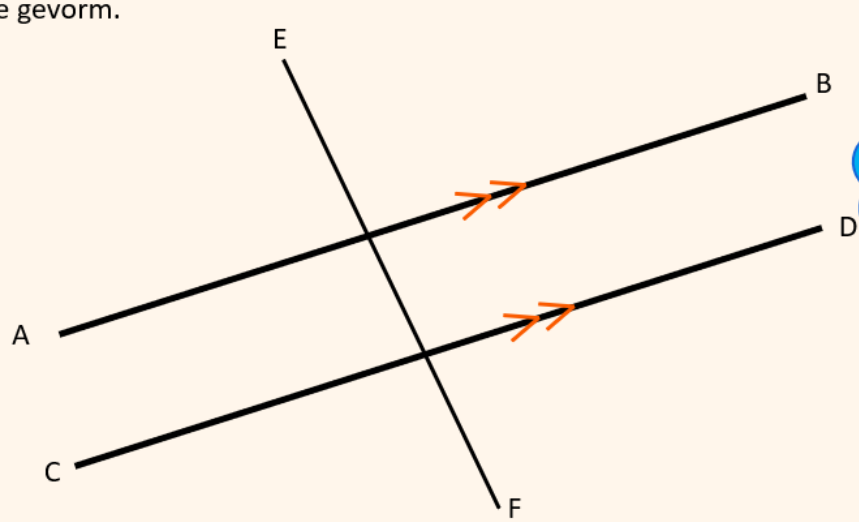
|| is die wiskundige simbool vir parallelle lyne

Ons sê dat lyn AB parallel is aan lyn CD

Ons skryf dit as $AB \parallel CD$

Meer inligting oor parallelle lyne

As 'n derde lyn, wat 'n dwarslyn genoem word, die parallelle lyne kruis, word hoeke gevorm.



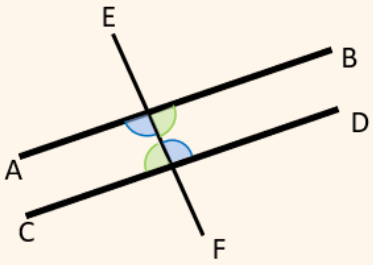
EF word n dwarslyn genoem



Hoeke gevorm as 'n dwarslyn 2 lyne kruis

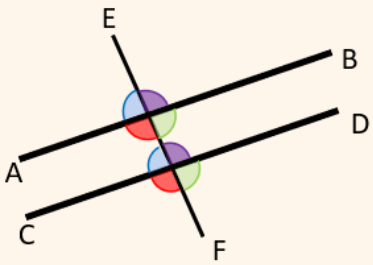
Verwisselende hoeke

Verwisselende hoeke word gevorm aan die binnekant of buitekant van twee lyne, maar aan teenoorstaande kante van die dwarslyn.



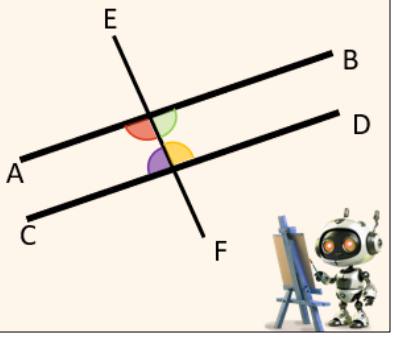
Ooreenkomstige hoeke

Ooreenkomstige hoeke word gevorm as twee hoeke aan die bokant of onderkant van twee lyne is, en aan dieselfde kant van die dwarslyn is.



Ko-binne hoeke

Ko-binnehoeke is hoeke tussen twee lyne en aan dieselfde kant van 'n dwarslyn.

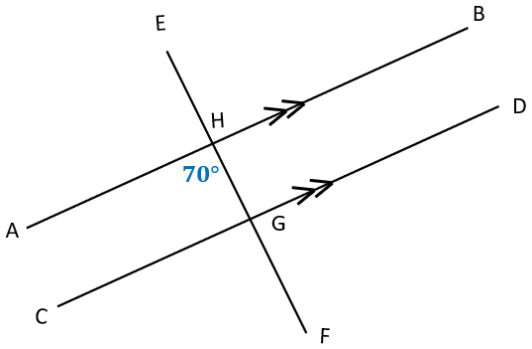


Verwisselende hoeke

Doen ondersoek 3

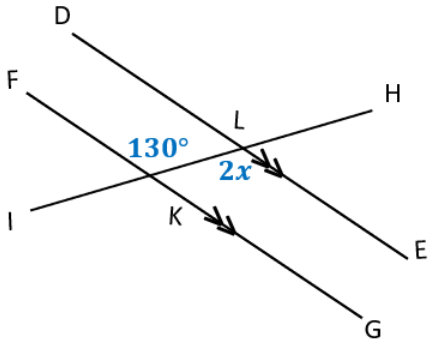
Voorbeeld 6

6.1) Bepaal die grootte van $H\hat{G}D$.



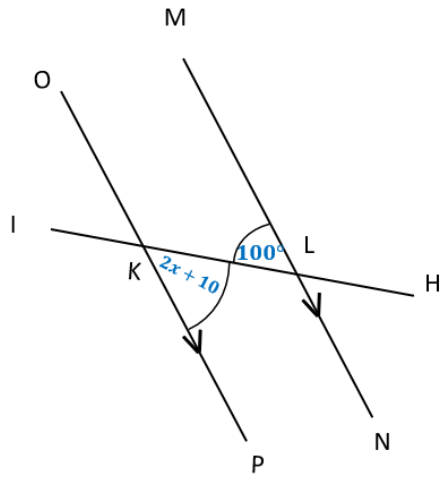
Bewering	Rede

6.2) Bepaal die grootte van x.



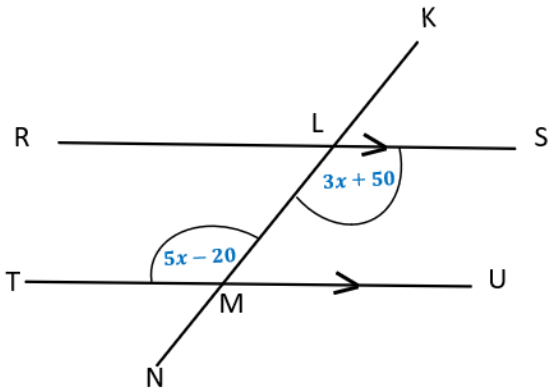
Bewering	Rede

6.3) Bepaal die grootte van x.



Bewering	Rede

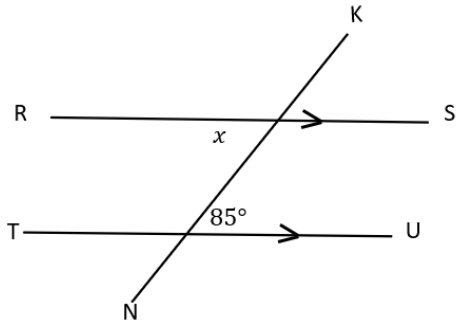
6.4) Bepaal die grootte van x.



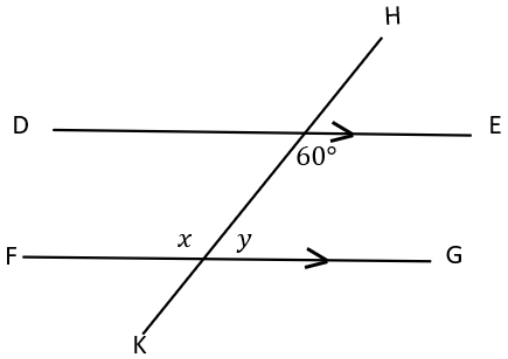
Bewering	Rede

OEFENING 5

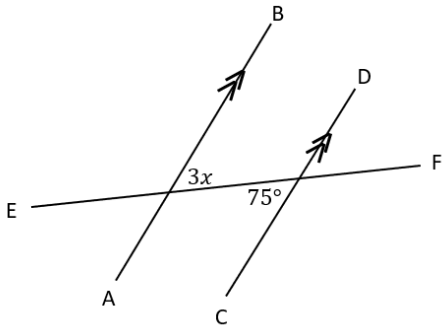
1) Bepaal die waarde van x.



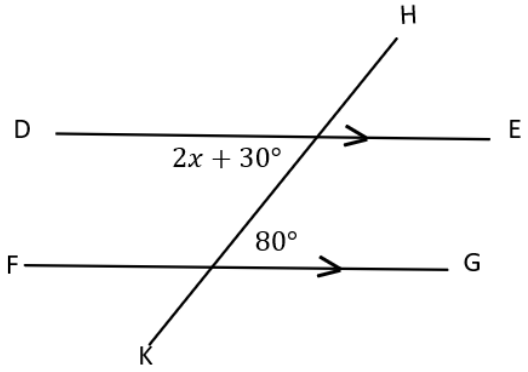
2) Bepaal die waarde van x en y.



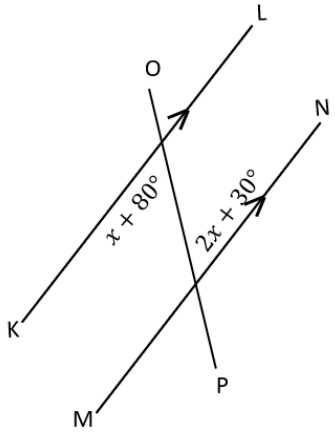
3) Bepaal die waarde van x.



4) Bepaal die waarde van x en y.



5) Bepaal die waarde van x.

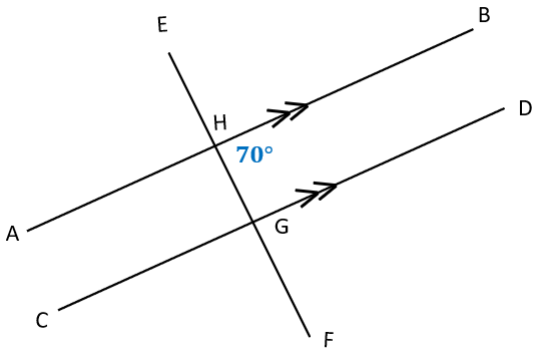


Ooreenkomstige hoeke

Doen ondersoek 4

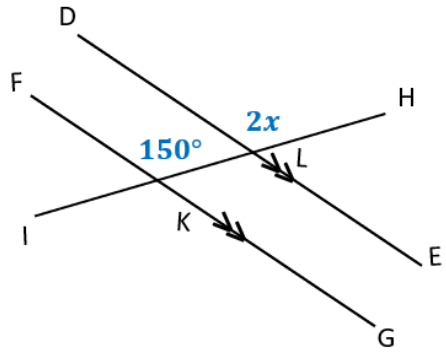
Voorbeeld 7

7.1) Bepaal die grootte van $D\hat{G}F$.



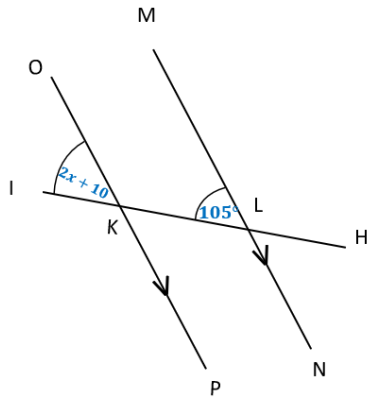
Bewering	Rede

7.2) Bepaal die grootte van x.



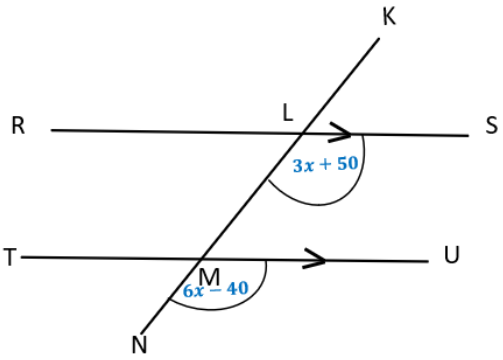
Bewering	Rede

7.3) Bepaal die grootte van x.



Bewering	Rede

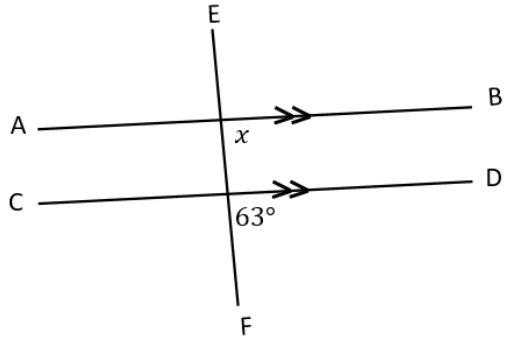
7.4) Bepaal die grootte van x.



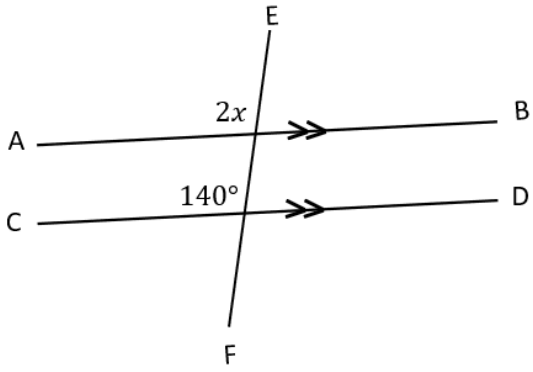
Bewering	Rede

OEFENING 6

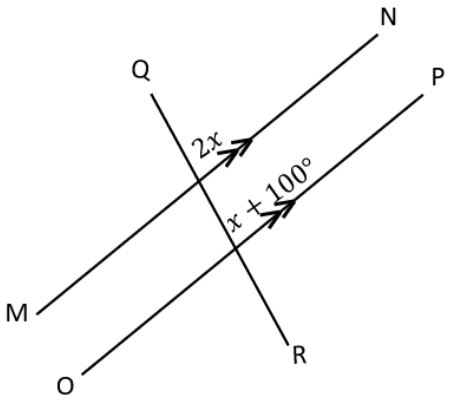
1) Bepaal die waarde van x.



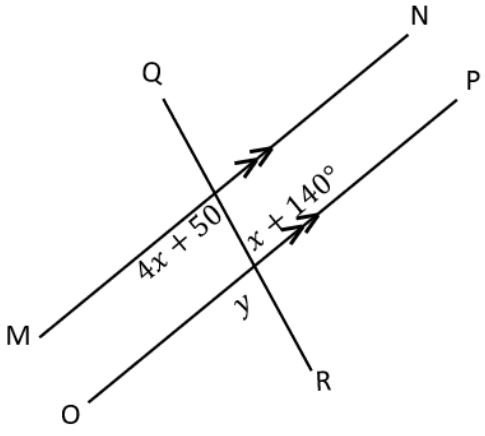
2) Bepaal die waarde van x.



3) Bepaal die waarde van x.



4) Bepaal die waarde van x en y.

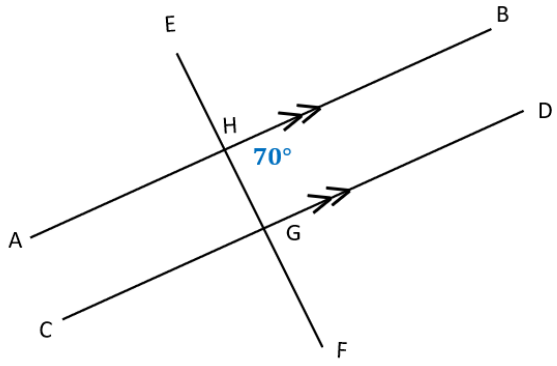


Ko-binnehoeke

Doen ondersoek 5

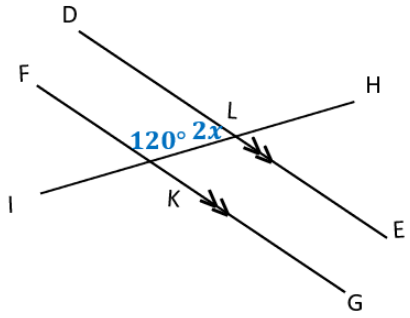
Voorbeeld 8

8.1) Bepaal die grootte van $D\hat{G}H$



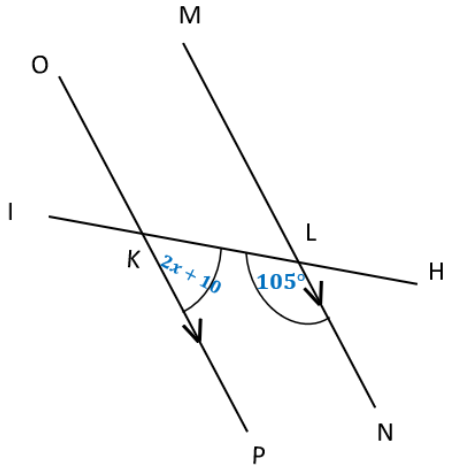
Bewering	Rede

8.2) Bepaal die grootte van x.



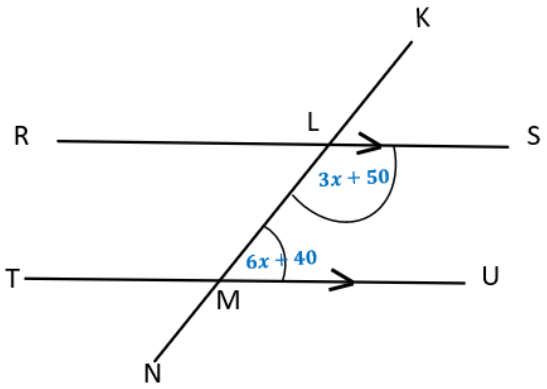
Bewering	Rede

8.3) Bepaal die grootte van x.



Bewering	Rede

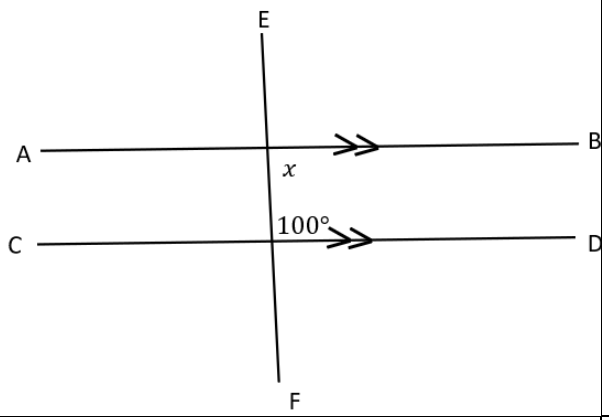
8.4) Bepaal die grootte van x.



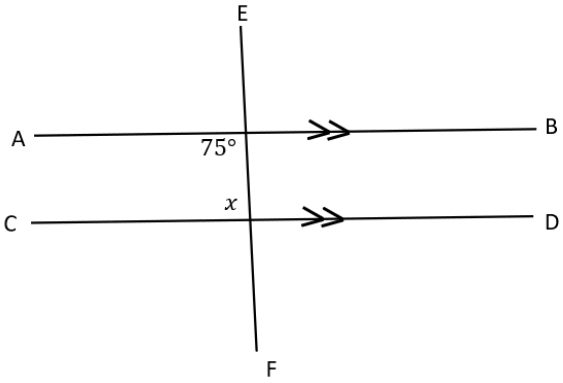
Bewering	Rede

OEFENING 7

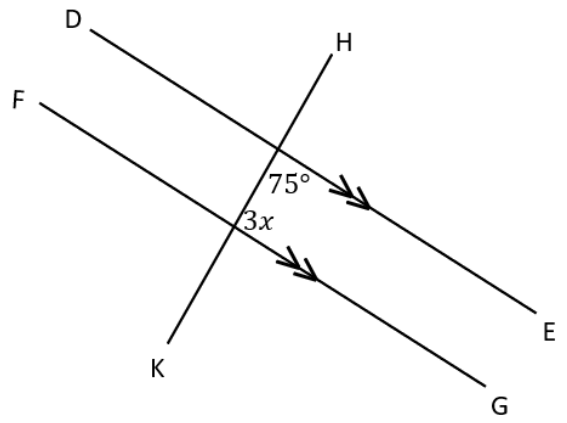
1) Bepaal die waarde van x.



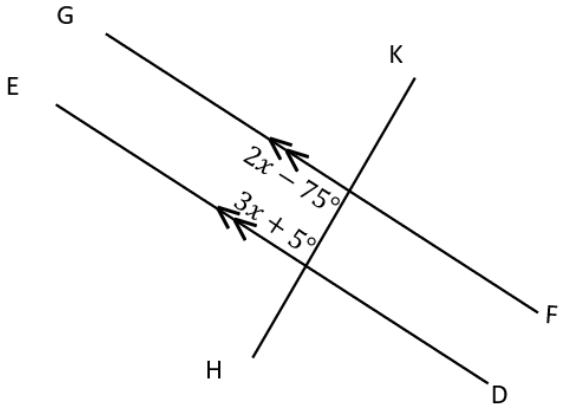
2) Bepaal die waarde van x.



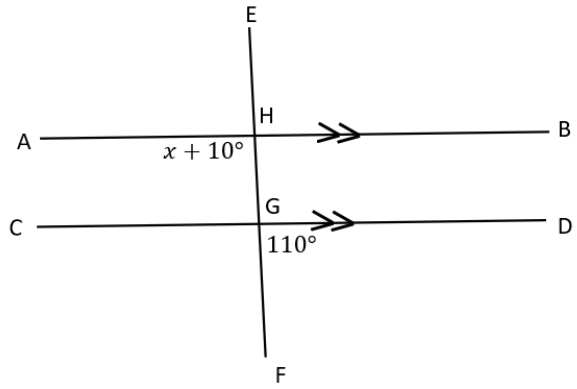
3) Bepaal die waarde van x.



4) Bepaal die waarde van x.



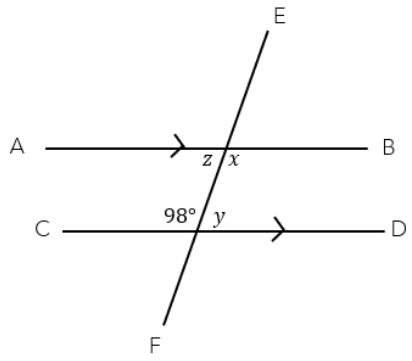
5) Bepaal die waarde van x.



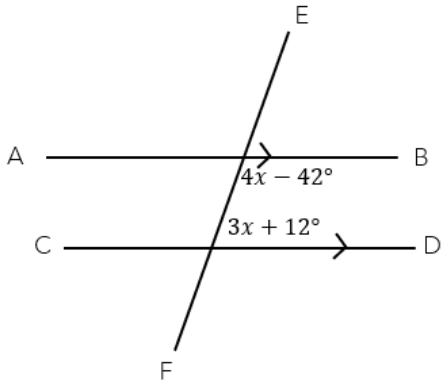
OEFENING 8

Bepaal die waarde van die onbekende as AB ∥ CD. Gee redes.

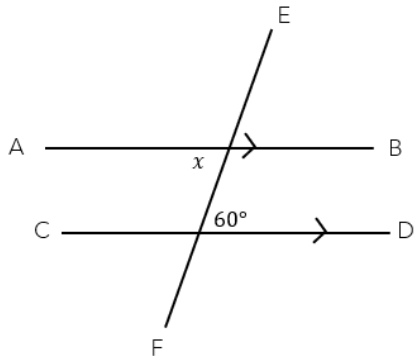
1.1)



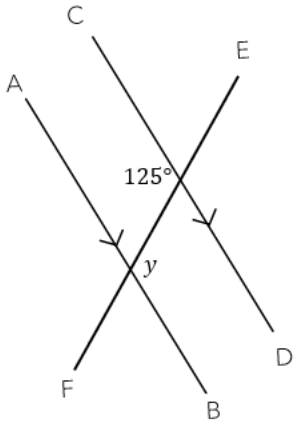
1.2)



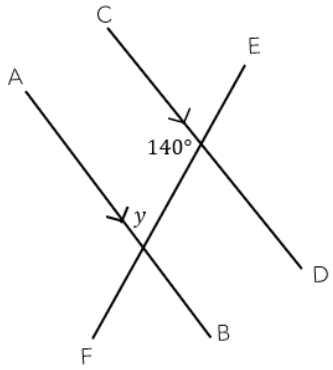
1.3)



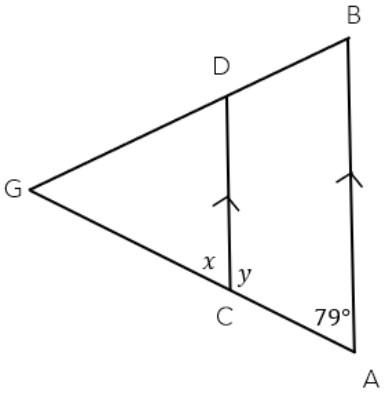
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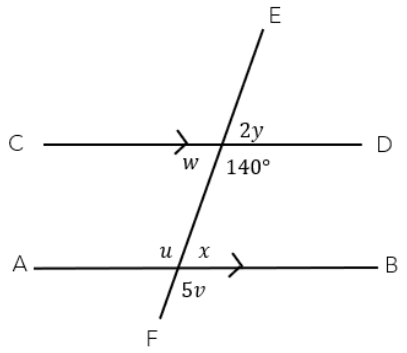
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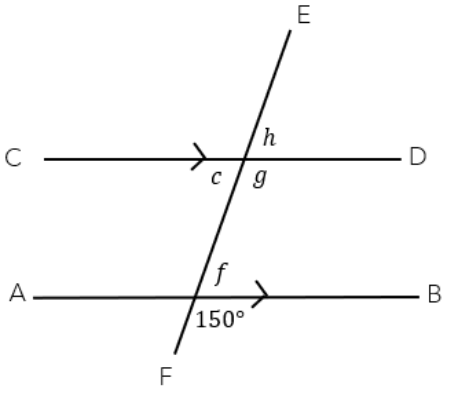
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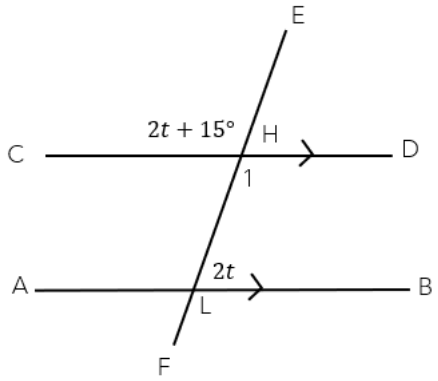
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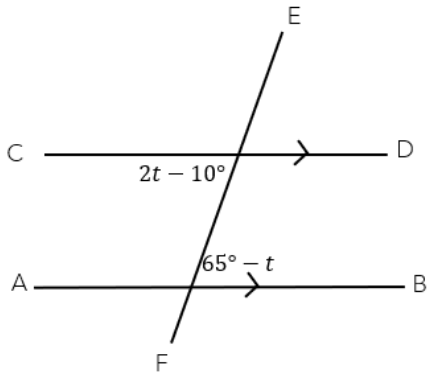
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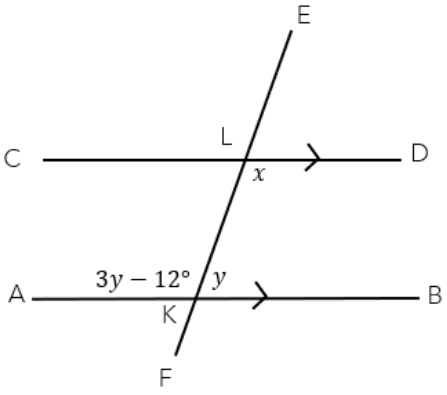
1.9)



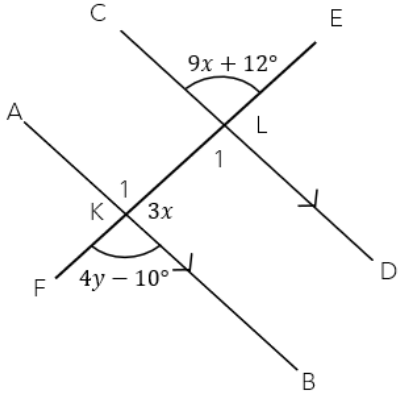
1.10)



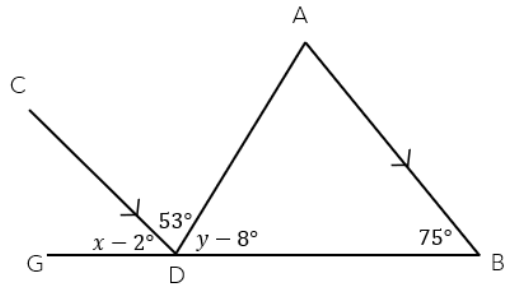
1.11)



1.12)



1.13)



1.14)

