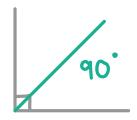




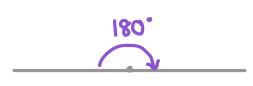
Gr 8 Wiskunde | Mathematics Meetkunde | Geometry (2)

1. Hoeke | Angles



- · Komplementêre hoeke Hoeke is saam = 90°
- · Complementary Angles Angles form 90°

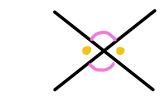
Kompl ...



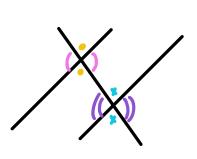
- · Supplementère hoeke Hoeke is saam = 180°
- Supplementary angles
 Angles form 180°

S. uppl...

2. Regoorstaande hoeke Opposite angles

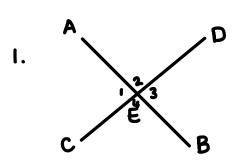


Lyne kruis mekaar



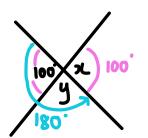
Lines cross each other.





E2 = E4 "Opposite angles"





Wat sien jy? Reguitlyne en Regoorst Le

What do you see? Straight lines and opposite angles.

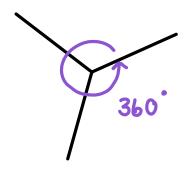
•
$$x = 100^{\circ}$$
 Regoorst Le Opposite angles (write on diagram | skryf op diagram)

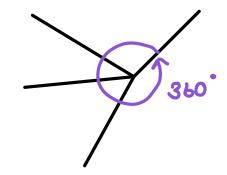
•
$$y + 100^{\circ} = 180^{\circ}$$
. Le op reguitlyn | Angles on straight $y = 80^{\circ}$.

3. Hoeke om 'n punt b Ek los die een vir laaste, as daar "awk-ward" lyne is.

Angles around a point to I leave this one for last, when there are "awkward" lines.

(Lyne wat "knak") (Lines that bend)



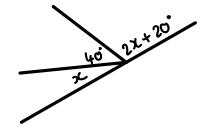


3

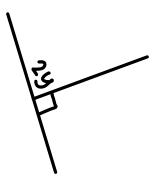
Oef | Ex

Bereken die onbekendes / Calculate the variables

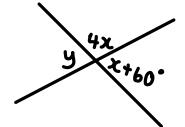
١.



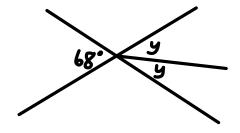
2.



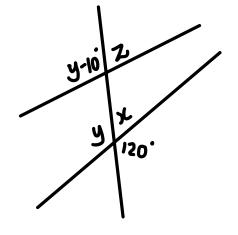
3.



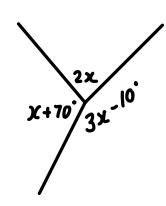
4.



5.



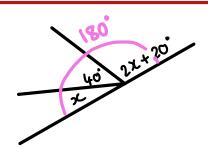
6.





Memorandum

١.



What do you see?
Straight line = 180' (Add all)

$$x + 40 + 2x + 20' = 180'$$

$$3x = 180' - 40' - 20'$$

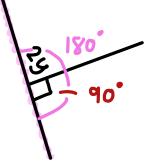
$$3x = 120'$$

$$x = 40'$$

$$x = 40'$$

$$x = 40'$$
Hoeke op 'n reguitlyn line and the second of the

2.

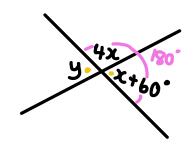


$$2y + 90' = 180'$$
 $2y = 180' - 90'$
 $2y = 90'$
 $2y = 45'$

Wat sien jy?
Reguitlyn = 180'
90' hoek
What do you see?
Straight line = 180'
90' angle

Hoeke op 'n reguitlyn Angles on a straight line

3.



Wat sien jy?

Reguitlyn = 180.

Regoorst Le

What do you see?

Straight line = 180.

Opposite angles

8.3.13

$$4x + x + 60 = 180$$

$$5x = 180 - 60$$

$$5x = 120$$

$$x = 24$$

$$y = x + 60$$

Hoeke op 'n requitlyn Angles on a straight line

24' + 60' = 84

Regoorst Le / Opposite angles

 $y = 120^{\circ}$

Wat sien jy Requitlyne = 180° Regoorst C

What do you see? Straight lines = 180° Opposite angles

by hoek wat gegee is with the angle that is given. Start

$$X + 120' = 180'$$

 $X = 180' - 120'$
 $X = 60'$

Regoorst Le / Opposite angles

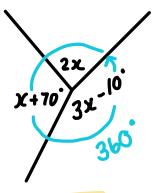
Hoeke op 'n requitlyn Angles on a straight line

y-10° + z = 180° Angles on a straight line 120 - 10 + 2 = 180 Z = 180'-120'+10' Z = 70°

8.3.13



6.



What do you see?
Angles around a point = 360

$$2x + x + 70 + 3x - 10 = 360$$

$$6x = 360 - 70 + 10$$

$$6x = 300$$

$$6 = 300$$

$$6 = 300$$

Hoeke om 'n punt Angles around a point