

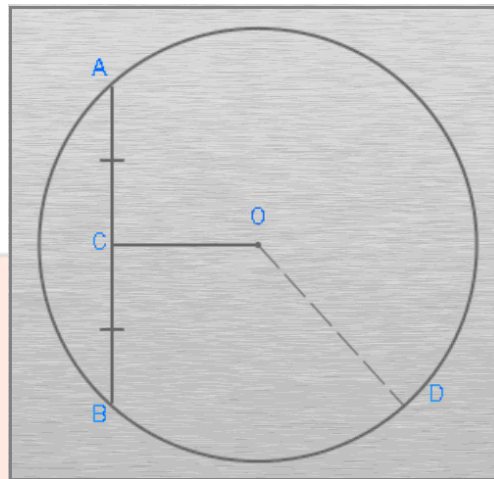


# CAMI Wiskunde: Graad 11

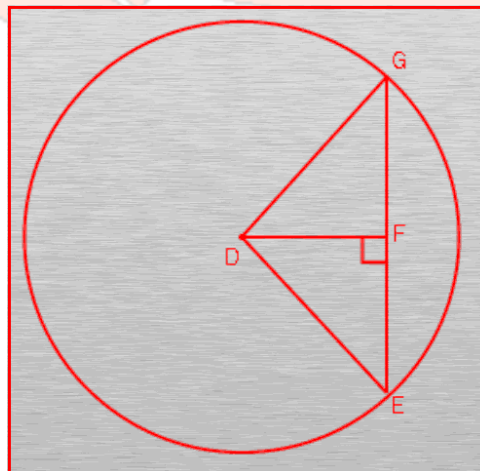
## GRAAD 11\_Euklidiese Meetkunde

### 11.7 Sirkels, koorde en middelpunte

1. Bepaal die lengte van AB as  $OD = 35$  mm en  $OC = 24$  mm.



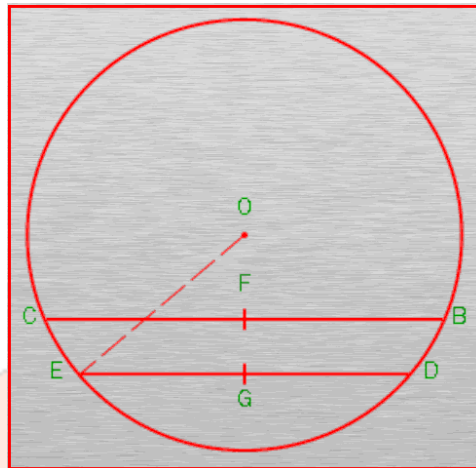
2. Bepaal die lengte van EF as  $\hat{E}DG = 90^\circ$ ,  $GD = 35$  mm en  $DE = DG$ .



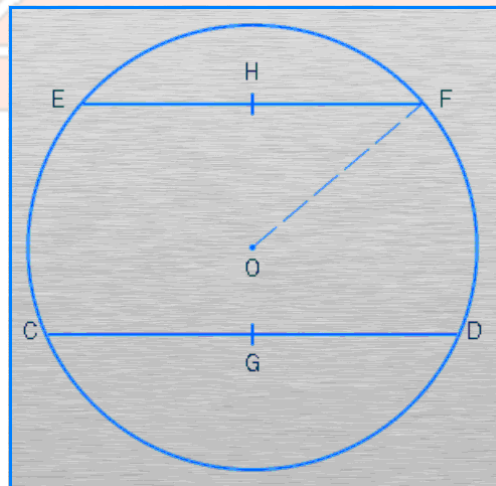


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3. Bereken die afstand tussen BC en DE as  $OG \perp ED$ ,  $ED \parallel BC$ ,  $BC = 64$  cm,  $DE = 52$  cm en  $OE = 88$  cm.



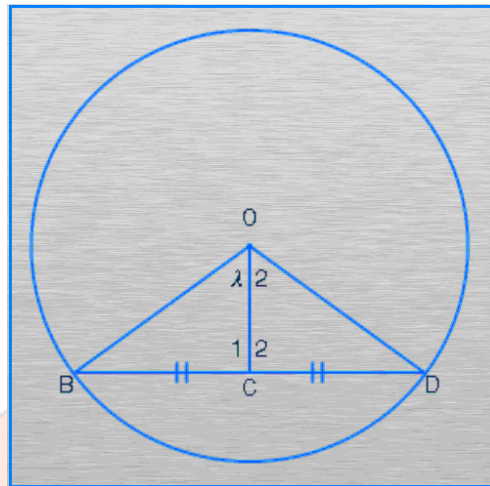
4. Bereken die afstand tussen CD en EF as  $OH \perp EF$ ,  $OG \perp CD$ ,  $CD = 75$  m,  $EF = 66$  m en  $OF = 100$  m.





# CAMI Wiskunde: Graad 11

5. Bereken die grootte van  $p$  as  $\lambda = 4p$  en  $\hat{D} = 5p$ .





# CAMI Wiskunde: Graad 11

## MEMO

Gee die antwoorde afgerond tot twee desimale plekke, [8.5.2; 8.5.3]

1.

$$OA = OD$$

radii

$$OA^2 = AC^2 + OC^2$$

Pythagoras

$$35^2 = AC^2 + 24^2$$

$$AC^2 = 1225 - 576$$

$$AC = 25.48 \text{ mm}$$

$$AB = 2 \times 25.48$$

Middelloodlyn deur sirkel se middelpunt

$$AB = 51.95 \text{ mm}$$

2.

$$DE = DG$$

radii

$$GE^2 = DG^2 + DE^2$$

Pythagoras

$$GE^2 = 35^2 + 35^2$$

$$GE = 49.50$$

$$\text{but } GF = EF$$

$DF \perp EG$

$$\therefore EF = 24.8 \text{ mm}$$

3.

$$OE^2 = OG^2 + EG^2$$

Pythagoras

$$88^2 = OG^2 + 26^2$$

$$OG = 84.0713 \text{ cm}$$

$$OC^2 = OF^2 + CF^2$$

Pythagoras

$$88^2 = OF^2 + 32^2$$

$$OF = 81.9756$$

$$FG = OG - OF$$

$$FG = 84.0713 - 81.9756$$

$$FG = 2.1 \text{ cm}$$

4.

$$OF^2 = OH^2 + HF^2$$

Pythagoras

$$100^2 = OH^2 + 33^2$$

$$OH = 94.3980 \text{ m}$$

$$OD^2 = OG^2 + GD^2$$

Pythagoras

$$100^2 = OG^2 + 37.5^2$$

$$OG = 92.70248 \text{ m}$$

$$\therefore HG = OH + OG$$

$$HG = 187.10 \text{ m}$$



## CAMI Wiskunde: Graad 11

5.	$\hat{B} = \hat{D} = 5p$	$BC = CD$
	$\hat{B} + \lambda = 90^\circ$	binne $\angle$ 's van $\Delta$
	$9p = 90^\circ$	
	$p = 10^\circ$	

