

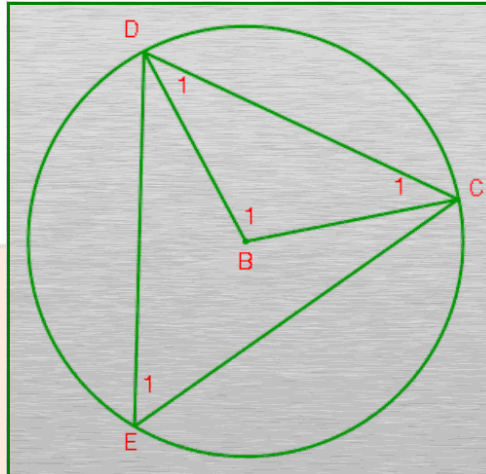


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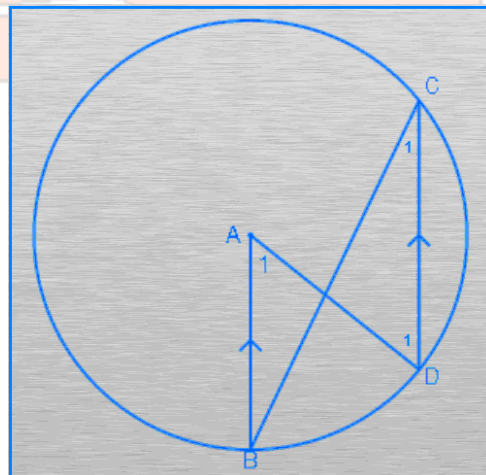
Graad 11 Euklidiese Meetkunde

11.7 Middelpuntshoek en koordevierhoeke

1. Bereken die waardes van die genommerde hoeke as $\hat{D}_1 = 40^\circ$ en B die middelpunt van die sirkel is.



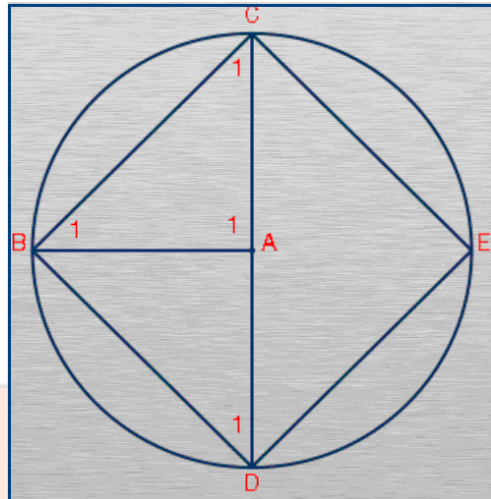
2. Bereken die waardes van die genommerde hoeke as $\hat{B} = 27^\circ$ en A die middelpunt van die sirkel is.





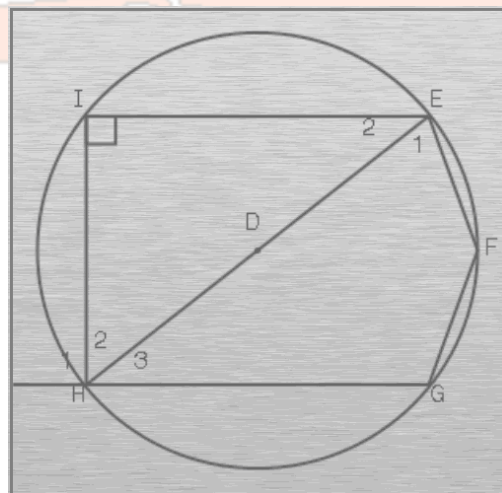
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3. Bereken die waardes van die genommerde hoeke as $\hat{C}_1 = 51^\circ$ en A die middelpunt van die sirkel is.



4. As $\hat{H}_1 = 93^\circ$, $\hat{H}_2 = 56^\circ$ en $\hat{E}_1 = 57^\circ$, bereken die grootte van die volgende hoeke:

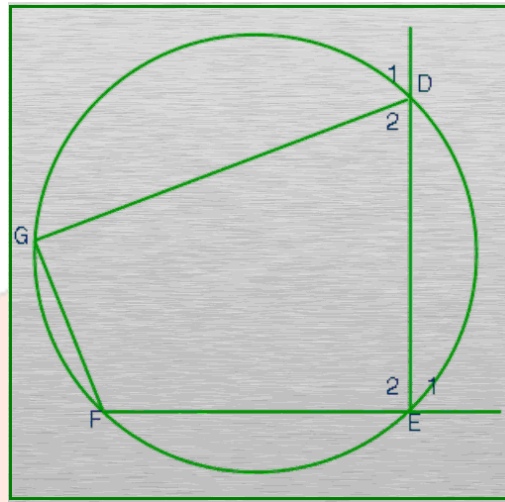
- (a) \hat{E}_2 (b) \hat{F} (c) \hat{G}





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5. As $\hat{E}_1 = 87^\circ$ en $\hat{F} = 112^\circ$, bereken die groottes van die volgende hoeke:
(a) \hat{G} (b) \hat{D}_1





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MEMO

[8.5.4.2; 8.5.8; 8.5.9]

1. $\hat{D}_1 = \hat{C}_1 = 40^\circ$ DB = BC (radii)
 $\hat{B}_1 = 180^\circ - 80^\circ$ binne \angle 'e van Δ
 $\hat{B}_1 = 100^\circ$
 $\hat{E}_1 = \frac{1}{2} \hat{B}_1 = 20^\circ$ omtreks \angle
2. $\hat{B} = \hat{C}_1 = 27^\circ$ Verwiss. \angle 'e, AB//CD
 $\hat{A}_1 = 2\hat{C}_1 = 54^\circ$ middelpunts \angle
 $\hat{D}_1 = \hat{A}_1 = 54^\circ$ verwiss. \angle 'e, AB//CD
3. $\hat{B}_1 = \hat{C}_1 = 51^\circ$ AB = AC (radii)
 $\hat{A}_1 = 180^\circ - 102^\circ$ binne. \angle 'e of Δ
 $\hat{A}_1 = 78^\circ$
 $\hat{D}_1 = \frac{1}{2} \hat{A}_1 = 39^\circ$ omtreks \angle
- 4(a) $\hat{E}_2 = 180^\circ - 90^\circ - 56^\circ$ binne. \angle 'e of Δ
 $\hat{E}_2 = 34^\circ$
- (b) $\hat{F} = 93^\circ + 56^\circ$ buite \angle van koordevierhoek
 $\hat{F} = 149^\circ$
- (c) $\hat{G} + \hat{E}_1 = 180^\circ$ oorstaande \angle 'e koordevierhoek
 $\hat{G} = 123^\circ$
- 5(a) $\hat{G} = \hat{E}_1 = 87^\circ$ buite \angle 'e koordevierhoek
- (b) $\hat{D}_1 = \hat{F} = 112^\circ$ buite \angle 'e koordevierhoek