

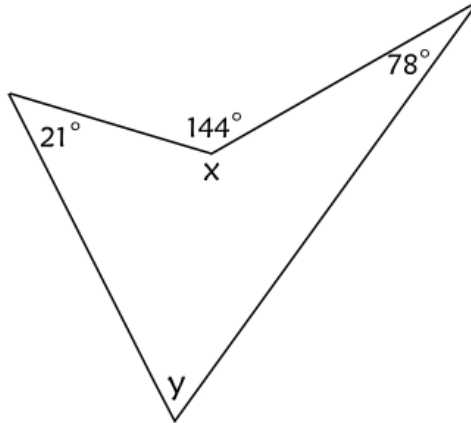


Drukbare assessering CAMI Wiskunde: Graad 9

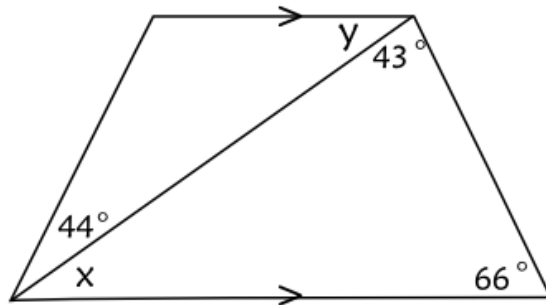
Vierhoeke

1. Bereken die gevraagde hoeke.

1.1

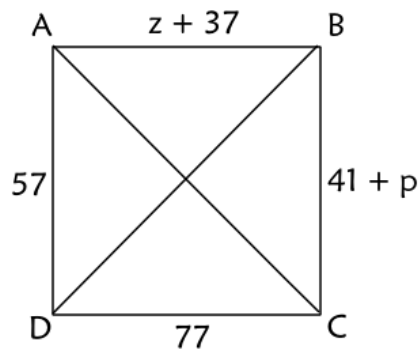


1.2



2. Bereken die gevraagde sy lengtes.

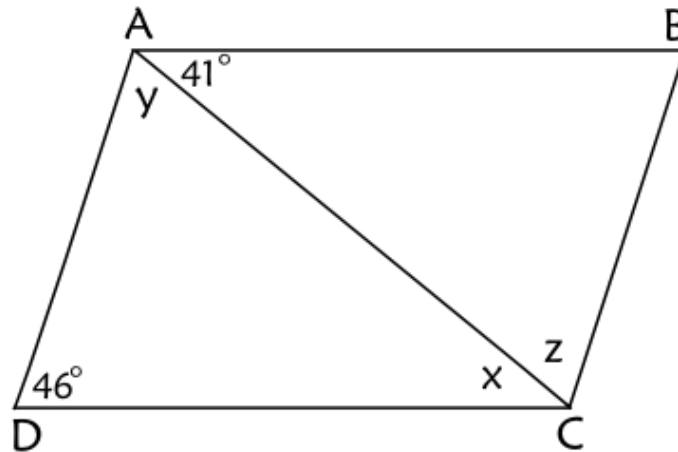
2.1 AS ABCD 'n vierkant is, bereken die waardes van p en z.



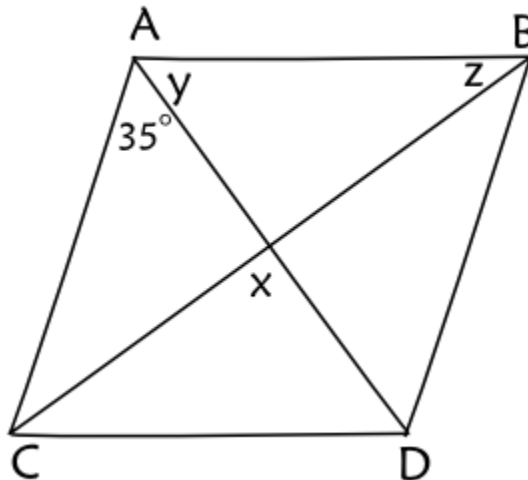


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2.2 As ABCD 'n parallelogram is, bereken die veranderlikes.



2.3 As ABCD 'n ruit is, bereken die veranderlikes.

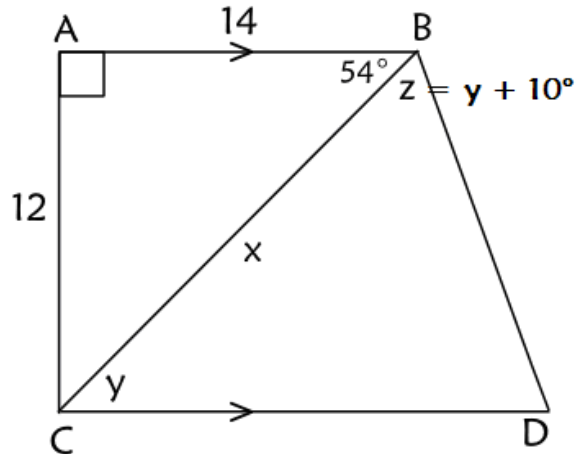




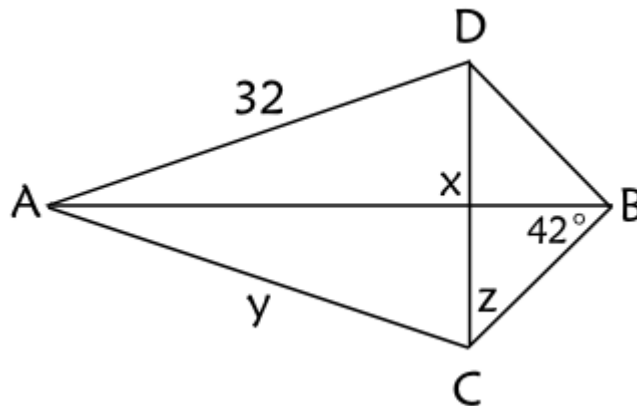
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2.4 As ABCD 'n trapesium is, bereken die veranderlikes.



2.5 As ABCD 'n vlieër is, bereken die waardes van die veranderlikes.



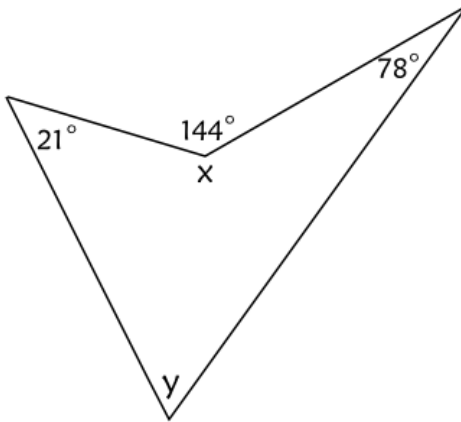


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MEMO

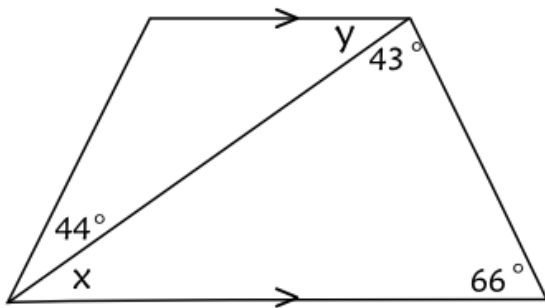
1. Bereken die gevraagde hoeke.

[8.4.2.1; 8.4.3.1]



$$\begin{aligned}
 x + 144^\circ &= 360^\circ \quad (\text{omwenteling}) \\
 x &= 360^\circ - 144^\circ \\
 x &= 216^\circ
 \end{aligned}$$

1.2

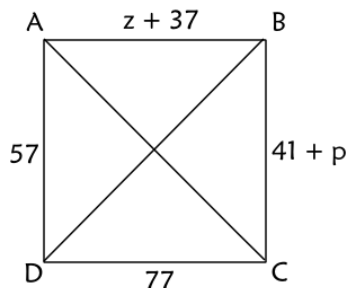


$$\begin{aligned}
 66^\circ + 43^\circ + x &= 180^\circ \quad (\text{binne } \sphericalangle\text{'e}) \\
 x &= 180^\circ - 66^\circ - 43^\circ \\
 x &= 71^\circ \\
 y &= x \quad (\text{verwis. } \sphericalangle\text{'e}) \\
 y &= 71^\circ
 \end{aligned}$$

2. Bereken die gevraagde sy lengtes.

[8.4.4.1; 8.4.4.2; 8.4.5.2; 8.4.6]

2.1 AS ABCD 'n vierkant is, bereken die waardes van p en z.



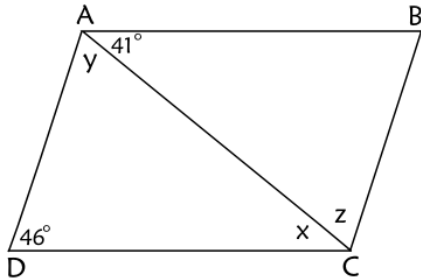
$$\begin{aligned}
 z + 37 &= 77 \\
 z &= 77 - 37 \\
 z &= 40 \\
 41 + p &= 57 \\
 p &= 57 - 41 \\
 p &= 16
 \end{aligned}$$



Drukbare assessering CAMI Wiskunde: Graad 9

2.2 As ABCD 'n parallelogram is, bereken die veranderlikes.

$$x = 41^\circ \text{ (verwis. <'e)}$$



$$x + y + 46^\circ = 180^\circ \text{ (binne <'e)}$$

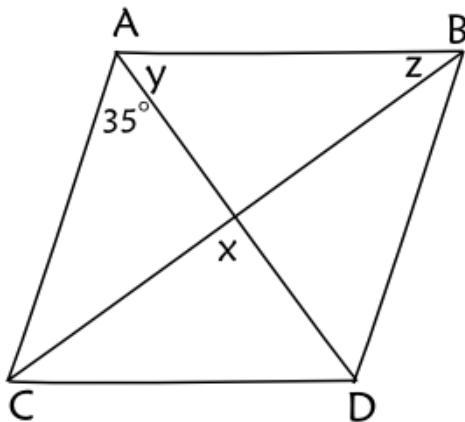
$$41^\circ + y + 46^\circ = 180^\circ$$

$$y = 180^\circ - 41^\circ - 46^\circ$$

$$y = 93^\circ$$

2.3 As ABCD 'n ruit is, bereken die veranderlikes.

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$$x = 90^\circ \text{ (hoeklyne sny loodreg)}$$

$$y = 35^\circ \text{ (hoeklyne halveer <'e)}$$

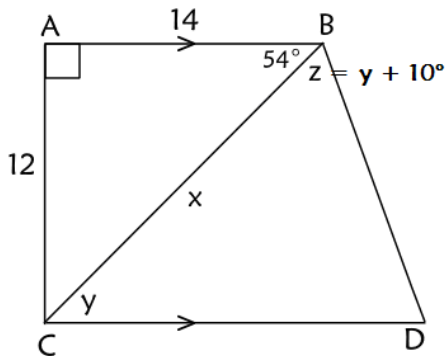
$$2z + 2y = 180^\circ \text{ (ko-binne <'e)}$$

$$2z + 70^\circ = 180^\circ$$

$$2y = 110^\circ$$

$$y = 55^\circ$$

2.4 As ABCD 'n trapesium is, bereken die veranderlikes.



$$y = 54^\circ \text{ (verwis. <'e)}$$

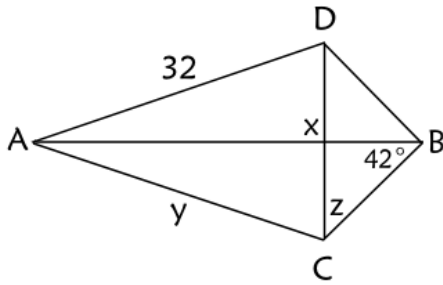
$$z = y + 10^\circ \text{ (gegee)}$$

$$z = 64^\circ$$



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2.5 As ABCD 'n vlieër is, bereken die veranderlikes.



$$x = 90^\circ \quad (\text{hoeklyne van vlieër})$$

$$z + 42^\circ + 90^\circ = 180^\circ \quad (\text{binne <'e})$$

$$z = 180^\circ - 42^\circ - 90^\circ$$

$$z = 48^\circ$$

