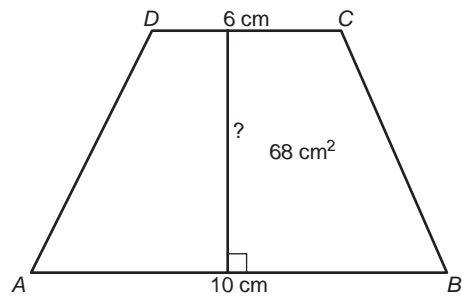


68 a



$$\frac{1}{2}(10 + 6) \cdot h = 68 \text{ cm}^2$$

$$8 \cdot h = 68$$

$$h = 8,5 \text{ cm}$$

b $\frac{1}{2}(8 + PS) \cdot 2,5 = 33,75$

$$10 + 1,25PS = 33,75$$

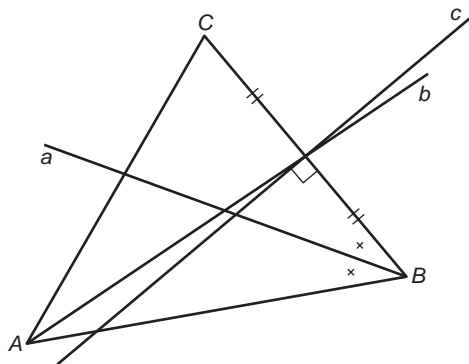
$$1,25PS = 23,75$$

$$PS = 19 \text{ cm.}$$

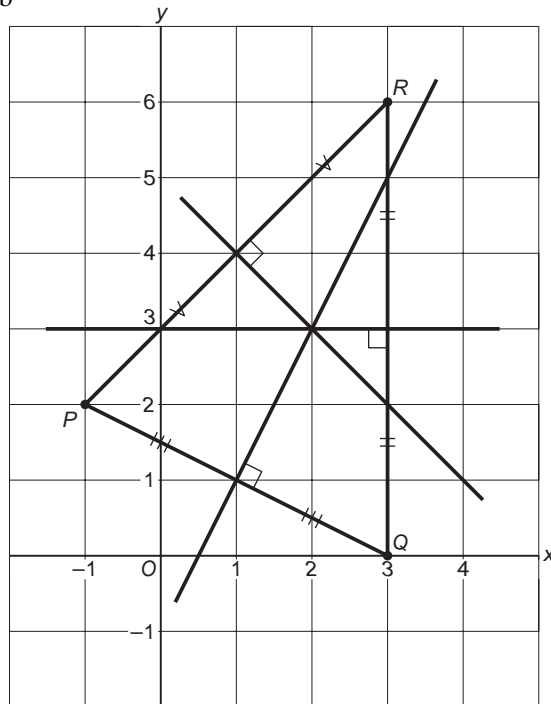
Diagnostische toets

bladzijde 66

1



2 a,b



c (2, 3)

d S ligt het dichtst bij R omdat S rechts van de middelloodlijn van PR ligt en boven de middelloodlijn van zijde QR ligt.

3 a $\angle R_{12} = 180^\circ - 90^\circ - 30^\circ = 60^\circ$

$\angle R_2 = \angle R_1 = 60^\circ : 2 = 30^\circ$

$\angle W_2 = 180^\circ - 52^\circ - 30^\circ = 98^\circ$

$\angle W_1 = 180^\circ - 98^\circ = 82^\circ$

b $\angle S_4 = 180^\circ - 30^\circ - 30^\circ = 120^\circ$

$\angle S_2 = \angle S_4 = 120^\circ$ (overstaande hoeken)

4 a $\angle S_1$ en $\angle F_2$

$\angle S_2$ en $\angle F_1$

b 4, nml $\angle E_2$ en $\angle A$, $\angle S_4$ en $\angle F_1$, $\angle S_3$ en $\angle F_2$, $\angle D_2$ en $\angle B$

c $\angle E_2 = \angle A = 56^\circ$

$\angle E_1 = 180^\circ - 50^\circ = 130^\circ$

d $\angle C_{12} = 180^\circ - 56^\circ - 74^\circ = 50^\circ$

$\angle C_1 = \angle C_2 = 25^\circ$

$\angle F_1 = 180^\circ - 25^\circ - 56^\circ = 99^\circ$

$\angle S_2 = \angle S_4 = \angle F_1 = 99^\circ$

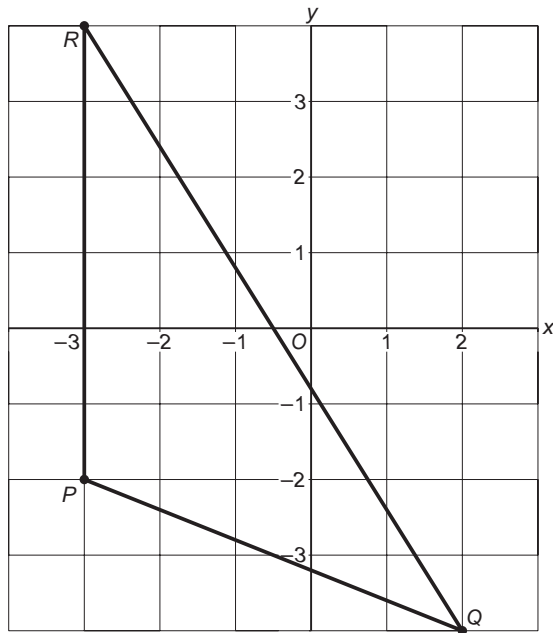
5 a omtrek = $1,5 + 1 + 3,5 + 2 + 1 + 1,5 + 1,5 + 1,5 + 2,5 + 3 = 19$ cm.

b opp (figuur) = $1,5 \cdot 1 + 2 \cdot 2,5 + 1,5 \cdot 0,5 + 2 \cdot 1 = 9,25$ cm²

of

opp (figuur) = $5 \cdot 3 - 1 \cdot 3,5 - 1,5 \cdot 1,5 = 9,25$ cm²
= 925 mm²

6

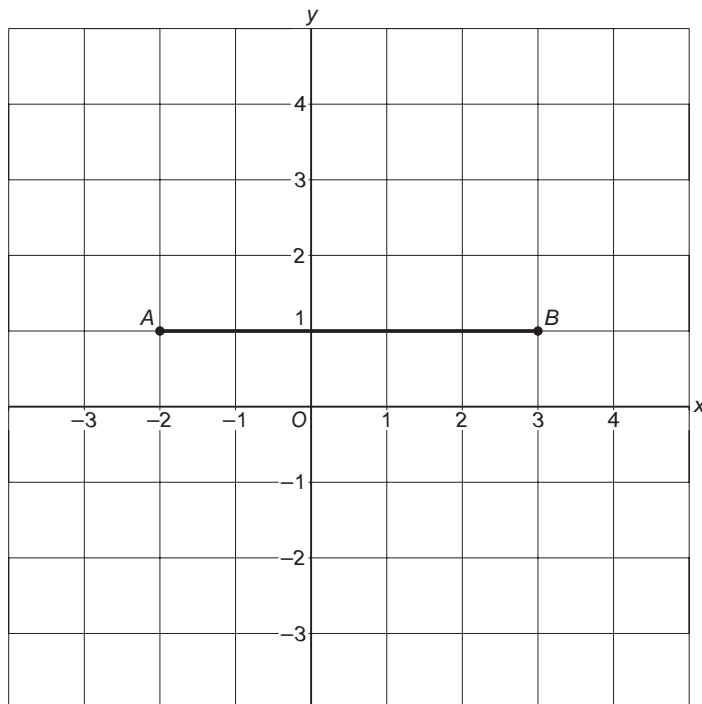


$$\text{opp}(\triangle PQR) = \frac{1}{2} \cdot 6 \cdot 5 = 15 \text{ cm}^2$$

7

$$\begin{aligned} \text{opp}(\triangle ABC) &= \frac{1}{2} \cdot 4 \cdot 3 = 6 \text{ cm}^2 \\ \text{opp}(\triangle DEF) &= \frac{1}{2} \cdot 2 \cdot 2 = 2 \text{ cm}^2 \\ \text{opp}(\triangle KLM) &= \frac{1}{2} \cdot 1 \cdot 5 = 2\frac{1}{2} \text{ cm}^2 \end{aligned}$$

8



$$\frac{1}{2} \cdot 5 \cdot h = 10$$

$$h = 10 : 2\frac{1}{2} = 4 \text{ cm}$$

De y-coördinaat van C is 5 of -3.

9 opp (a) = $30 \cdot 40 = 1200 \text{ mm}^2$
 opp (b) = $32 \cdot 29 = 928 \text{ mm}^2$
 opp (c) = $25 \cdot 39 = 975 \text{ mm}^2$

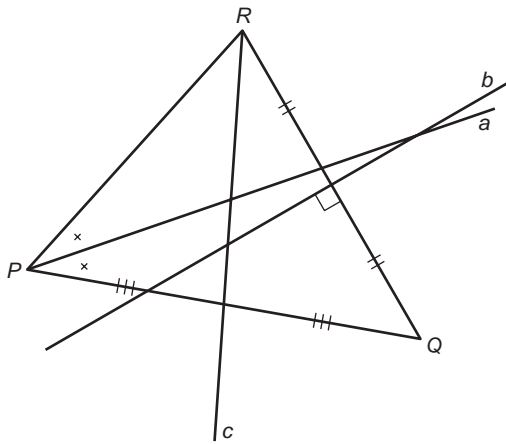
10 opp (ABCD) = $8 \times 4 = 32 \text{ cm}^2$
 $5 \times h = 32$
 $h = 32 : 5 = 6,4 \text{ cm}$

11 opp (I) = $\frac{1}{2}(46 + 18) \cdot 24 = 768 \text{ mm}^2$
 opp (II) = $\frac{1}{2}(40 + 10) \cdot 30 = 750 \text{ mm}^2$

Herhaling

bladzijde 68

1



2 a, b, d

