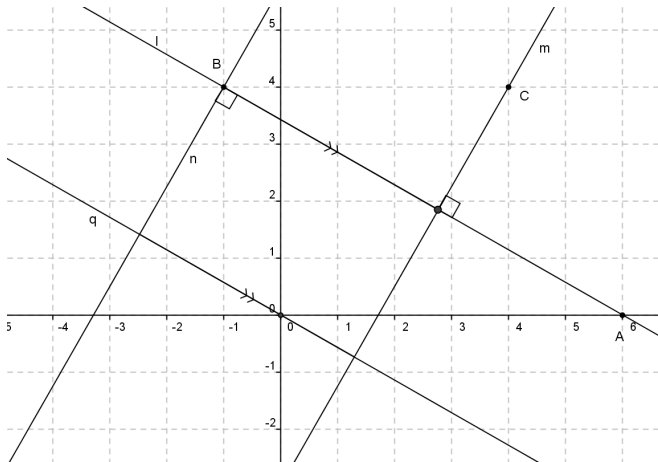


## Diagnostische toets 1VWO1 hoofdstuk 5

### Opgave 1:



### Opgave 2:

- kruisen
- kruisen
- snijden
- evenwijdig

### Opgave 3:

- gestrekte hoek
- stompe hoek
- stompe hoek
- scherpe

### Opgave 4:

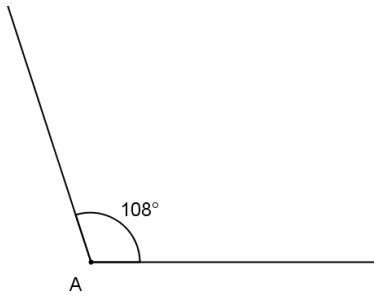
$$\angle P = 33^\circ, \angle Q = 79^\circ, \angle S = 117^\circ, \angle T = 59^\circ$$

### Opgave 5:

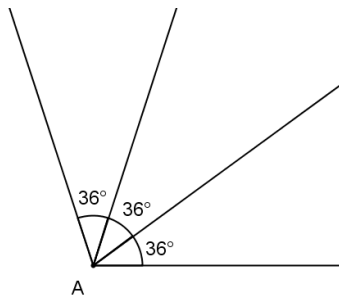
- grote wijzer: in 30 min  $180^\circ$ , dus in 5 min  $30^\circ$   
kleine wijzer: in 60 min  $30^\circ$ , dus in 5 min  $2\frac{1}{2}^\circ$   
dus de hoek is:  $150 + 2\frac{1}{2} - 30 = 122\frac{1}{2}^\circ$
- grote wijzer: in 10 min  $60^\circ$   
kleine wijzer: in 10 min  $5^\circ$   
dus de hoek is:  $150 + 5 - 60 = 95^\circ$
- grote wijzer: in 23 min  $138^\circ$   
kleine wijzer: in 23 min  $11\frac{1}{2}^\circ$   
dus de hoek is:  $150 + 11\frac{1}{2} - 138 = 23\frac{1}{2}^\circ$

**Opgave 6:**

a.

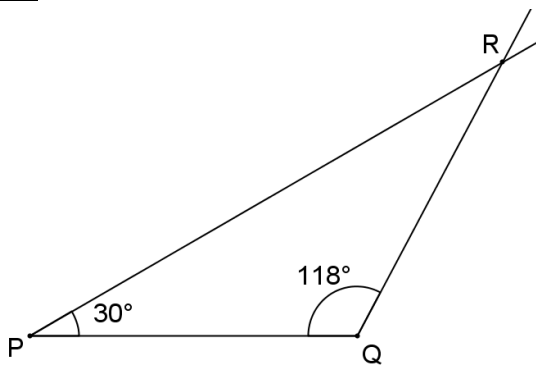


b.

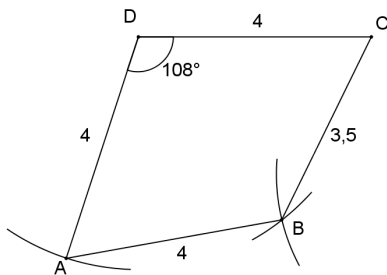


**Opgave 7:**

a.



b.

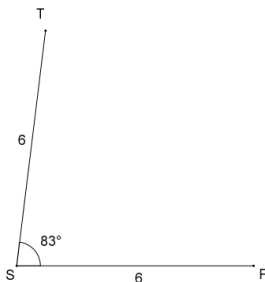


**Opgave 8:**

a.  $\angle S = 38^\circ$

b. punt  $T$  ligt 46 dm boven de waterspiegel

c.



**Opgave 9:**

- a. Nice
- b.  $210^\circ$  en 150 km
- c.  $295^\circ$  en 310 km

**Opgave 10:**

$$\angle S_4 = 90^\circ \text{ (overstaande hoek met } \angle S_1)$$

$$\angle S_3 = 180^\circ - \angle S_2 - \angle S_4 = 180^\circ - 52^\circ - 90^\circ = 38^\circ$$

$$\angle S_{56} = 180^\circ - \angle S_3 - \angle S_4 = 180^\circ - 38^\circ - 90^\circ = 52^\circ$$

$$\angle S_5 = \frac{1}{2} \cdot \angle S_{56} = \frac{1}{2} \cdot 52^\circ = 26^\circ$$

**Opgave 11:**

a.  $\angle DFA = 180^\circ - \angle ADF - \angle DAF = 180^\circ - 90^\circ - 20^\circ = 70^\circ$

$$\angle EAF = 180^\circ - \angle DFA = 180^\circ - 70^\circ = 110^\circ$$

b.  $\angle BAF = 90^\circ - \angle DAF = 90^\circ - 20^\circ = 70^\circ$

$$\angle BAE = \frac{1}{2} \cdot 70^\circ = 35^\circ$$

$$\angle DEA = 35^\circ$$

$$\angle CEA = 180^\circ - \angle DEA = 180^\circ - 35^\circ = 145^\circ$$