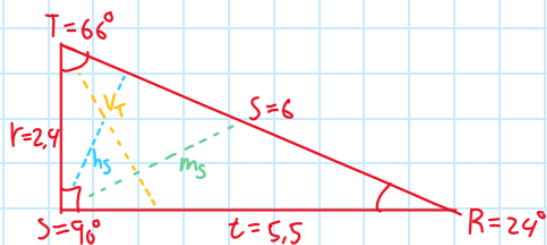


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|  | Navn:         |  | Skole:              |                  |
|  | Klasse:<br>20 |  | Dato: 7. marts 2021 | Fag: Matematik A |

## Opgave 100



$$\begin{aligned}
 T &= 180^\circ - R - S \\
 &= 180^\circ - 24^\circ - 90^\circ \\
 &= 66^\circ
 \end{aligned}$$

Opstil formel for T  
indsæt tal  
udregn

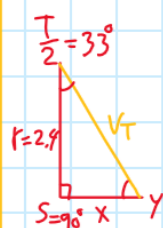
$$\begin{aligned}
 r &= S \cdot \sin(R) \\
 &= 6 \cdot \sin(24^\circ) \\
 &= 6 \cdot 0,4 \\
 &= 2,4
 \end{aligned}$$

Opstil formel for r  
indsæt tal  
udregn sin

$$\begin{aligned}
 t &= S \cdot \sin(T) \\
 &= 6 \cdot \sin(66^\circ) \\
 &= 6 \cdot 0,91 \\
 &= 5,5
 \end{aligned}$$

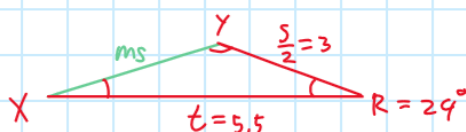
Opstil formel for t  
indsæt tal  
udregn sin

|  |               |  |                     |                  |
|--|---------------|--|---------------------|------------------|
|  | Navn:         |  | Skole:              |                  |
|  | Klasse:<br>20 |  | Dato: 7. marts 2021 | Fag: Matematik A |

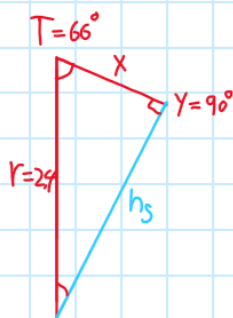


$$\begin{aligned}
 Y &= 180^\circ - S - \frac{T}{2} && \text{Iopstiller formel for } Y \\
 &= 180^\circ - 90^\circ - 33^\circ && \text{Indsæt tal} \\
 &= 57^\circ
 \end{aligned}$$

$$\begin{aligned}
 V_T &= \frac{r}{\sin(Y)} && \text{Iopstil formel for } V_T \\
 &= \frac{2.9}{\sin(57^\circ)} && \text{Indsæt tal} \\
 &= \frac{2.9}{0.84} && \text{Udregn sin} \\
 &= 2.9
 \end{aligned}$$



$$\begin{aligned}
 m_s &= \sqrt{t^2 + \frac{S^2}{2} - 2 \cdot t \cdot \frac{S}{2} \cdot \cos(R)} && \text{Iopstiller formel for } m_s \\
 &= \sqrt{5.5^2 + 3^2 - 2 \cdot 5.5 \cdot 3 \cdot \cos(29^\circ)} && \text{Indsæt tal} \\
 &= \sqrt{30.25 + 9 - 33 \cdot \cos(29^\circ)} && \text{Reducer} \\
 &= \sqrt{30.25 + 9 - 33 \cdot 0.92} && \text{Udregn cos} \\
 &= \sqrt{30.25 + 9 - 30.1} && \text{Gange} \\
 &= \sqrt{9.1} && \text{Udregn} \\
 &= 3
 \end{aligned}$$



$$\begin{aligned}
 h_s &= \sin(T) \cdot r && \text{Iopstiller formel for } h_s \\
 &= \sin(66^\circ) \cdot 2.9 && \text{Indsæt tal} \\
 &= 0.91 \cdot 2.9 && \text{Udregn sin} \\
 &= 2.2 && \text{Udregn}
 \end{aligned}$$