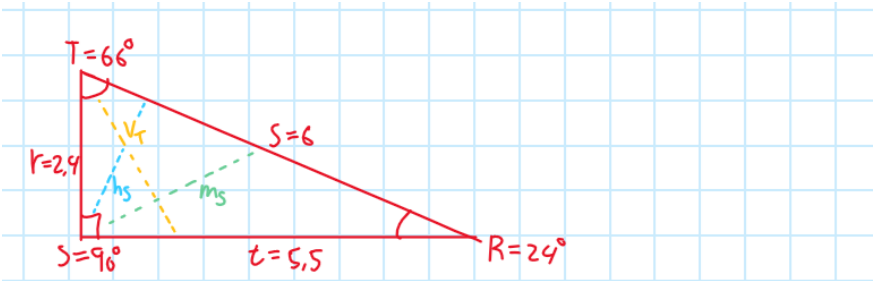
	Navn:		Skole:	
	Klasse: 20		Dato: 7. marts 2021	Fag: Matematik A

Opgave 100



$T = 180° - R - S$ — Opstil formel for T

$= 180° - 24° - 90°$ — Indsæt tal

$= 66°$ — Udregn

$r = S \cdot \sin(R)$ — Opstil formel for r

$= 6 \cdot \sin(24°)$ — Indsæt tal

$\approx 6 \cdot 0{,}4$ — Udregn sin

$= 2{,}4$

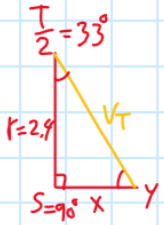
$t = S \cdot \sin(T)$ — Opstil formel for t

$= 6 \cdot \sin(66)$ — Indsæt tal

$= 6 \cdot 0{,}91$ — Udregn sin

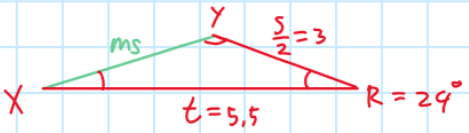
$= 5{,}5$

	Navn:		Skole:	
	Klasse: 20		Dato: 7. marts 2021	Fag: Matematik A

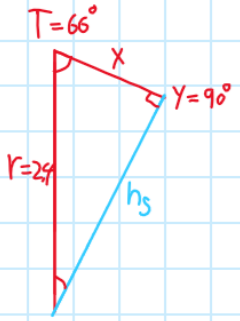


$$
\begin{aligned}
Y &= 180^\circ - S - \tfrac{T}{2} && \text{Opstiller formel for } Y\\
&= 180^\circ - 90^\circ - 33^\circ && \text{Indsæt tal}\\
&= 57^\circ
\end{aligned}
$$

$$
\begin{aligned}
V_T &= \frac{r}{\sin(Y)} && \text{Opstil formel for } V_T\\
&= \frac{2,4}{\sin(57^\circ)} && \text{Indsæt tal}\\
&= \frac{2,4}{0,84} && \text{Udregn sin}\\
&= 2,9
\end{aligned}
$$



$$
\begin{aligned}
m_S &= \sqrt{t^2 + \tfrac{S}{2}^2 - 2\,t\,\tfrac{S}{2}\cos(R)} && \text{Opstiller formel for } m_S\\
&= \sqrt{5,5^2 + 3^2 - 2 \cdot 5,5 \cdot 3 \cdot \cos(29^\circ)} && \text{Indsæt tal}\\
&= \sqrt{30,25 + 9 - 33 \cdot \cos(29^\circ)} && \text{Reducer}\\
&= \sqrt{30,25 + 9 - 33 \cdot 0,92} && \text{Udregn cos}\\
&= \sqrt{30,25 + 9 - 30,1} && \text{Gange}\\
&= \sqrt{9,1} && \text{Udregn}\\
&= 3
\end{aligned}
$$



$$
\begin{aligned}
h_S &= \sin(T)\ r && \text{Opstiller formel for } h_S\\
&= \sin(66^\circ) \cdot 2,4 && \text{Indsæt tal}\\
&= 0,91 \cdot 2,4 && \text{Udregn sin}\\
&= 2,2 && \text{Udregn}
\end{aligned}
$$