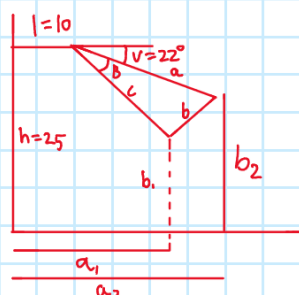


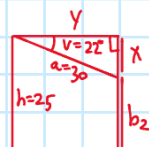
	Navn:		Skole:	
	Klasse: 20		Dato: 9. marts 2021	Fag: Matematik A

Opgave 126



$$\begin{aligned} a &= 30 \\ b &= 17 \\ c &= 29 \end{aligned}$$

b)

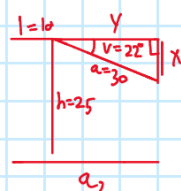


$$\begin{aligned} x &= \sin(v) \cdot a \\ &= \sin(22) \cdot 30 \quad | \text{indsæt tal} \\ &= 0.37 \cdot 30 \quad | \text{sin} \\ &= 11.23 \quad | \text{Gange} \end{aligned}$$

$$\begin{aligned} b_2 &= h - x \\ &= 25 - 11.23 \quad | \text{indsæt tal} \\ &= 13.8 \quad | \text{udregn} \end{aligned}$$

$$\begin{aligned} B &= \cos^{-1} \left(\frac{a^2 + c^2 - b^2}{2ac} \right) \\ &= \cos^{-1} \left(\frac{30^2 + 29^2 - 17^2}{2 \cdot 30 \cdot 29} \right) \quad | \text{indsæt tal} \\ &= \cos^{-1} \left(\frac{900 + 841 - 289}{1740} \right) \quad | \text{potens} \\ &= \cos^{-1} \left(\frac{1452}{1740} \right) \quad | \text{udregn} \\ &= \cos^{-1}(0.8345) \quad | \text{brøk} \\ &= 34.48 \end{aligned}$$

a)

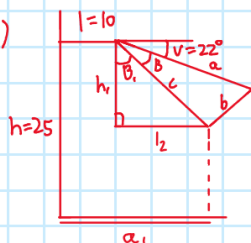


$$\begin{aligned} y &= \cos(v) \cdot a \\ &= \cos(22) \cdot 30 \quad | \text{indsæt tal} \\ &= 0.92 \cdot 30 \quad | \text{cos} \\ &= 27.82 \end{aligned}$$

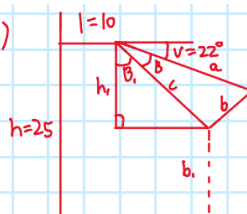
$$\begin{aligned} a_2 &= y + l \\ &= 27.82 + 10 \quad | \text{indsæt tal} \\ &= 37.82 \end{aligned}$$

-1.70

a)



b)



$$\begin{aligned} b_1 &= h - h_1 \\ &= 25 - 20 \quad | \text{indsæt tal} \\ &= 5 \quad | \text{minus} \end{aligned}$$

$$\begin{aligned} B_1 &= 90 - v - B \\ &= 90 - 22 - 34.48 \quad | \text{indsæt tal} \\ &= 33.52 \end{aligned}$$

$$\begin{aligned} B_1 &= 90 - v - B \\ &= 90 - 22 - 34.48 \quad | \text{indsæt tal} \\ &= 33.52 \end{aligned}$$

$$\begin{aligned} b_2 &= \sin(B_1) \cdot c \\ &= \sin(33.5) \cdot 24 \quad | \text{indsæt tal} \\ &= 0.55 \cdot 24 \quad | \text{sin} \\ &= 13.25 \end{aligned}$$

$$\begin{aligned} h_1 &= \cos(B_1) \cdot c \\ &= \cos(33.52) \cdot 24 \quad | \text{indsæt tal} \\ &= 0.833 \cdot 24 \quad | \text{cos} \\ &= 20 \end{aligned}$$

$$\begin{aligned} a_1 &= l + l_2 \\ &= 10 + 13.25 \quad | \text{indsæt tal} \\ &= 23.25 \quad | \text{udregn} \end{aligned}$$