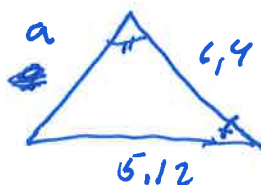
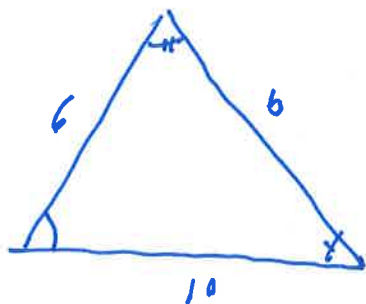


verketni 2B

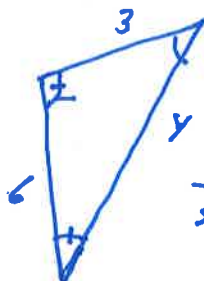
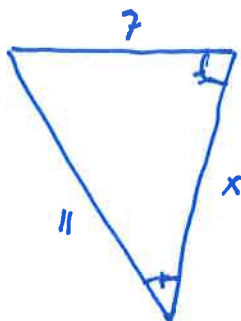
7.



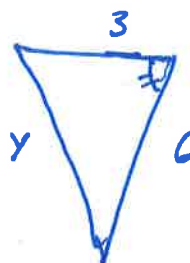
$$\frac{a}{x} = \frac{5.12}{10} \rightarrow a = \frac{6 \cdot 5.12}{10} = \underline{\underline{3.072}}$$

$$\frac{b}{x} = \frac{10 \cdot 6.4}{5.12} \rightarrow b = \frac{10 \cdot 6.4}{5.12} = \underline{\underline{12.5}}$$

8.



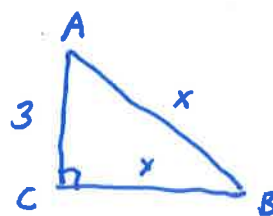
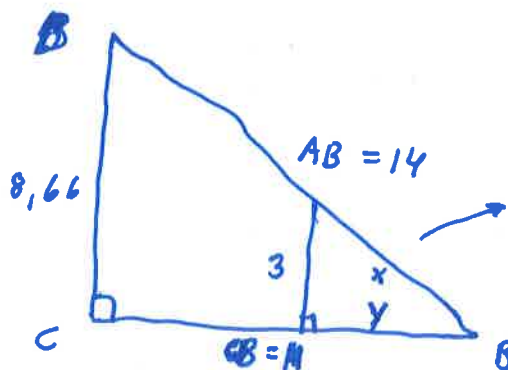
→ sinua



$$\frac{x}{6} = \frac{7}{3} \rightarrow x = \frac{7 \cdot 6}{3} = \underline{\underline{14}}$$

$$\frac{y}{11} = \frac{3}{7} \rightarrow y = \frac{3 \cdot 11}{7} \approx \underline{\underline{4.71}}$$

9.

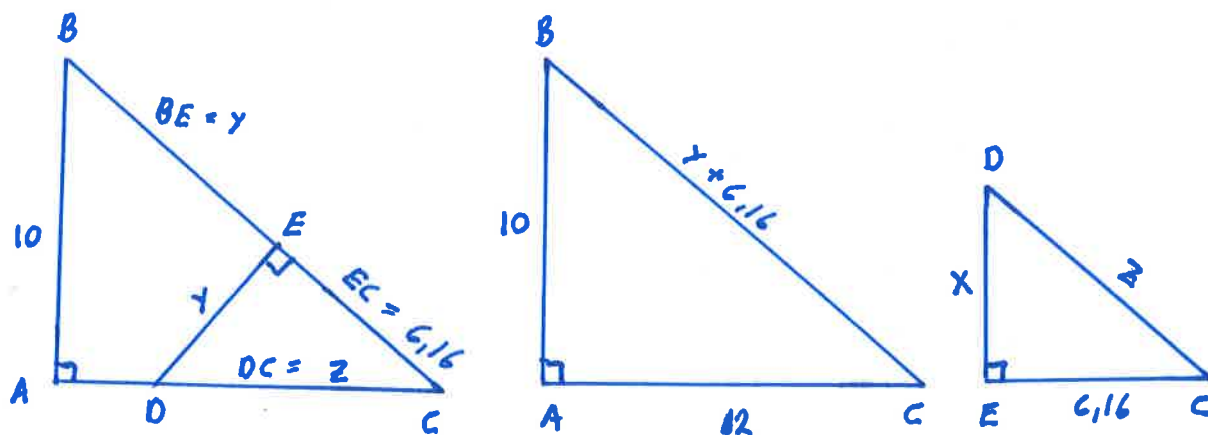


$$\frac{x}{14} = \frac{3}{8.66} \rightarrow x = \frac{3 \cdot 14}{8.66} = \underline{\underline{4.85}}$$

$$\frac{y}{11} = \frac{3}{8.66} \rightarrow y = \frac{3 \cdot 11}{8.66} \approx \underline{\underline{3.81}}$$

Verkefni 2B

10.



$$\textcircled{1} \quad \frac{x}{10} = \frac{6.16}{12} \rightarrow x = \frac{10 \cdot 6.16}{12} = \underline{\underline{5.13}}$$

② Finnum z með Pýþagóras

$$a^2 + b^2 = c^2$$

$$5.13^2 + 6.16^2 = z^2 \leftrightarrow z^2 = 26.316 + 37.945 = 64.263$$

$$\sqrt{z^2} = \sqrt{64.263}$$

$$\underline{\underline{z \approx 8.016}}$$

③ Finnum y með hlutfallsreikningi

$$\frac{(y + 6.16)}{8.016} = \frac{10}{5.13} \quad \text{margföldum í kross}$$

$$5.13 \cdot (y + 6.16) = 10 \cdot 8.016$$

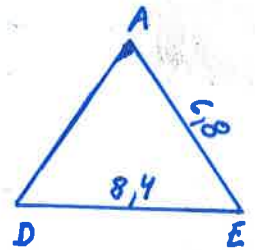
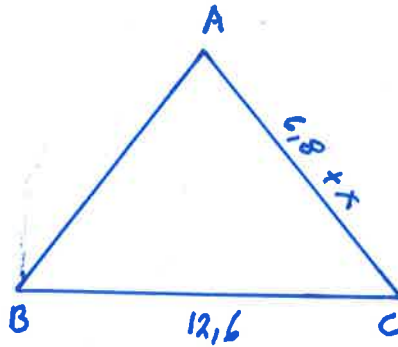
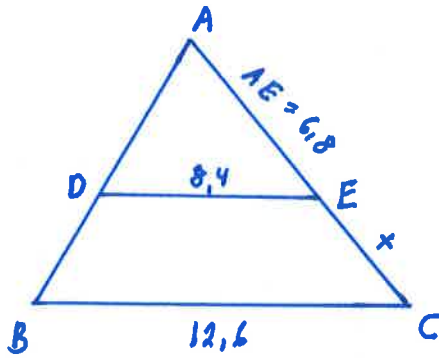
$$5.13 \cdot y + 31.60 = 80.16$$

$$\begin{array}{r} 5.13 \cdot y = 48.56 \\ \hline 5.13 \quad 5.13 \end{array}$$

$$y = 9.4658 \approx \underline{\underline{9.47}}$$

Verkefni 2B

11.



$$\textcircled{1} \quad \frac{(x + 6,8)}{6,8} = \frac{12,6}{8,4} \cdot 6,8$$

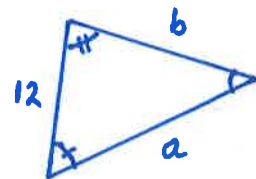
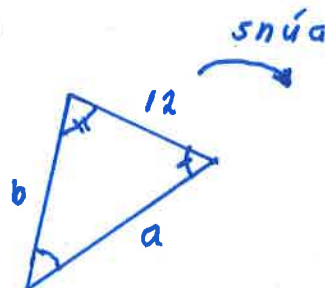
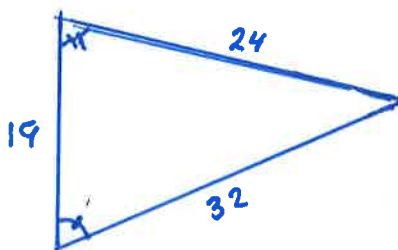
$$x + 6,8 = \frac{12,6 \cdot 6,8}{8,4}$$

$$x + 6,8 = 10,2$$

$$\begin{array}{r} -6,8 \\ -6,8 \end{array}$$

$$\underline{\underline{x = 3,4}}$$

12.

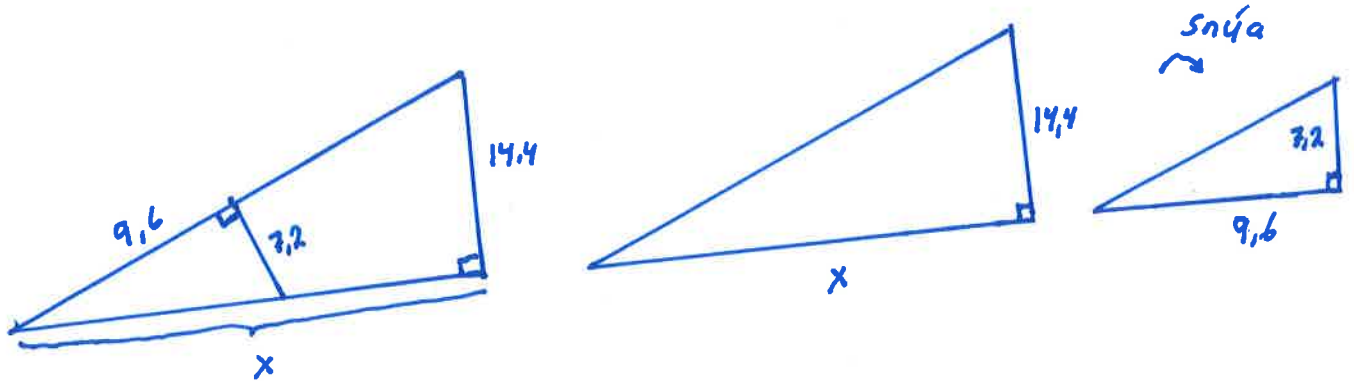


$$\textcircled{1} \quad \frac{a}{32} = \frac{12}{19} \cdot 32 \rightarrow a = \frac{12 \cdot 32}{19} \approx \underline{\underline{20,21}}$$

$$\textcircled{2} \quad \frac{b}{24} = \frac{12}{19} \cdot 24 \rightarrow b = \frac{12 \cdot 24}{19} \approx \underline{\underline{15,16}}$$

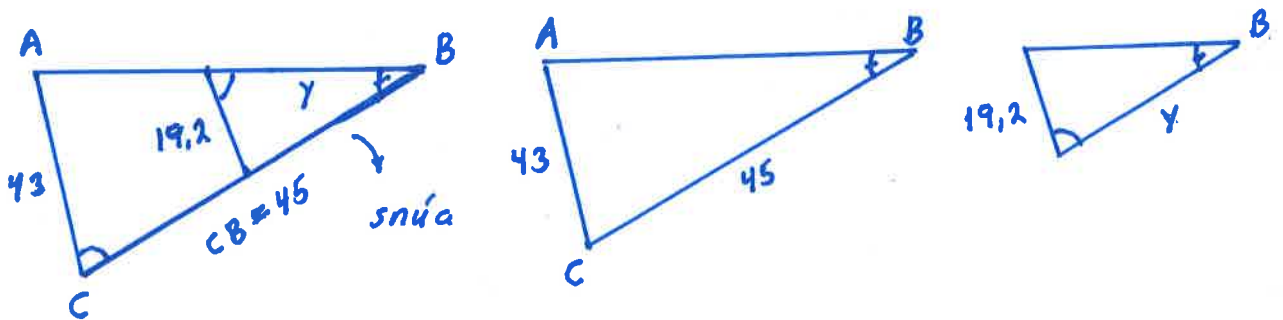
Verkefni 2B

13.



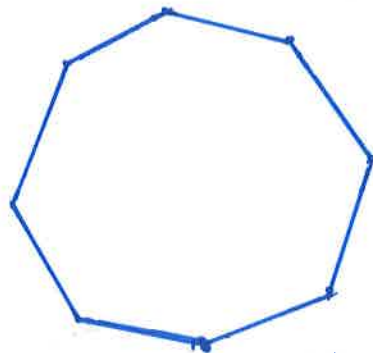
$$\textcircled{1} \quad \frac{x \cdot 9.6}{9.6} = \frac{14.4 \cdot 9.6}{7.2} \rightarrow x = \frac{14.4 \cdot 9.6}{7.2} = \underline{\underline{19.2}}$$

14.



$$\textcircled{1} \quad \frac{45 \cdot y}{45} = \frac{19.2 \cdot 45}{43} \rightarrow y = \frac{19.2 \cdot 45}{43} \approx \underline{\underline{20.09}}$$

15.



8-hyrningur

hornasumma 8-hyrnings er

$$(n-2) \cdot 180^\circ \quad n = 8$$

$$(8-2) \cdot 180^\circ = 6 \cdot 180^\circ = \underline{\underline{1080^\circ}}$$

$$\text{stærð horna er } \frac{\text{hornasumma}}{n} = \frac{1080^\circ}{8} = \underline{\underline{135^\circ}}$$

16.

Hornasumma marghyrnings = 1980°

$$(n-2) \cdot \frac{180^\circ}{180^\circ} = \frac{1980^\circ}{180^\circ} \rightarrow \frac{(n-2)}{+2} = \frac{11}{+2}$$

$$\underline{\underline{n = 13}}$$

$\rightarrow$ 13-marghyrningur

$$\text{stærð hvers horns er } \frac{1980^\circ}{13} \approx \underline{\underline{152.31^\circ}}$$

Verkefni 2B

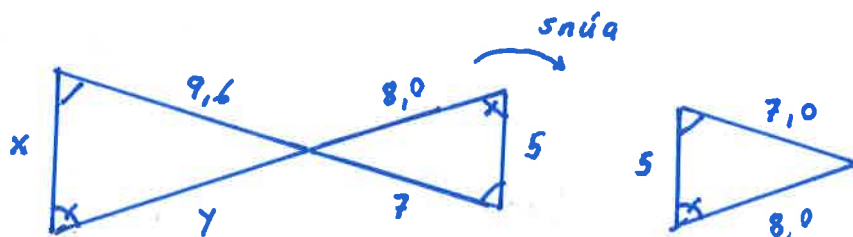
17. $(n-2) \cdot 180^\circ = n \cdot 147,27$

$$\begin{array}{r} 180 \cdot n - 360^\circ = 147,27 \cdot n \\ -147,27 \cdot n \quad \quad -147,27 \cdot n \\ \hline \end{array}$$

$$\begin{array}{r} 32,73 \cdot n - 360^\circ = 0 \\ \quad \quad \quad +360^\circ \quad +360^\circ \\ \hline 32,73 \cdot n = 360^\circ \\ \hline 32,73 \quad \quad 32,73 \end{array}$$

$n = 10,999 \approx \underline{\underline{11\text{-hyrningur}}}$

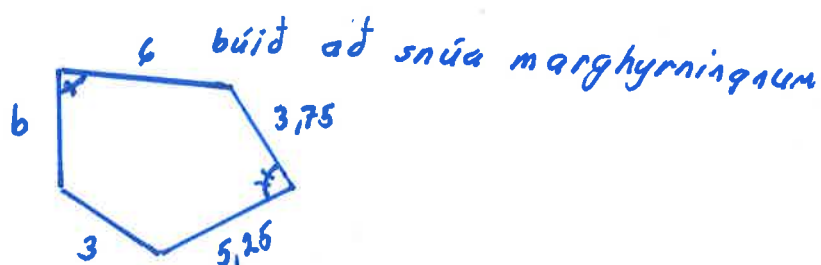
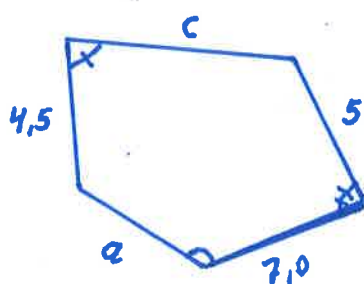
18.



① $\frac{x}{5} = \frac{9,6}{7} \cdot 5 \rightarrow x = \frac{5 \cdot 9,6}{7} \approx \underline{\underline{6,857}}$

② $\frac{y}{8} = \frac{9,6}{7} \cdot 8 \rightarrow y = \frac{9,6 \cdot 8}{7} \approx \underline{\underline{10,971}}$

19.



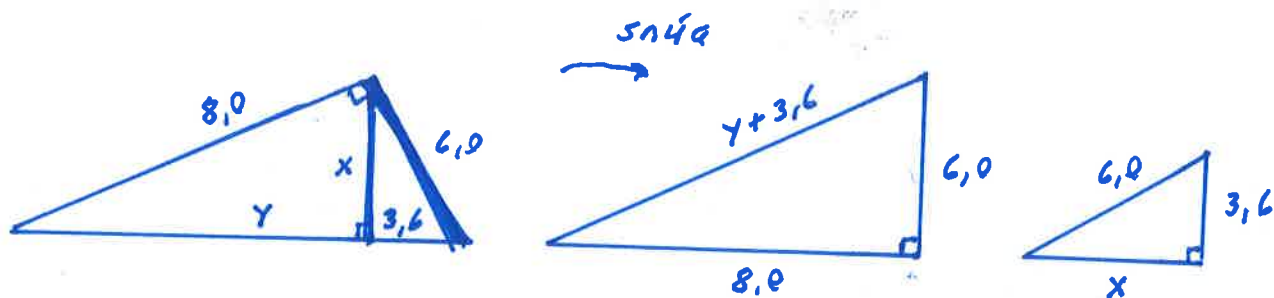
① $\frac{a}{3} = \frac{5}{3,75} \cdot 3 \rightarrow a = \frac{5 \cdot 3}{3,75} = \underline{\underline{4}}$

② $\frac{b}{4,5} = \frac{5,25}{7,0} \cdot 4,5 \rightarrow b = \frac{5,25 \cdot 4,5}{7,0} = \underline{\underline{3,375}}$

③ $\frac{c}{6} = \frac{5}{3,75} \cdot 6 \rightarrow c = \frac{5 \cdot 6}{3,75} = \underline{\underline{8,0}}$

Verkefni 2B

20.

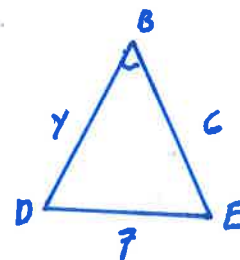
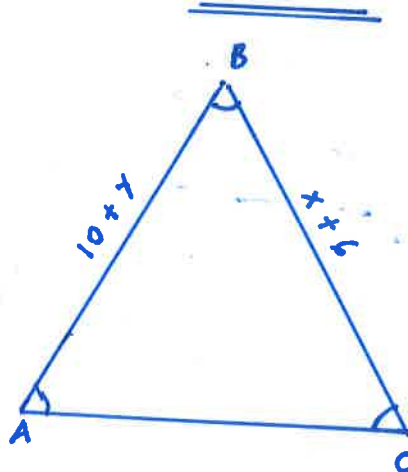
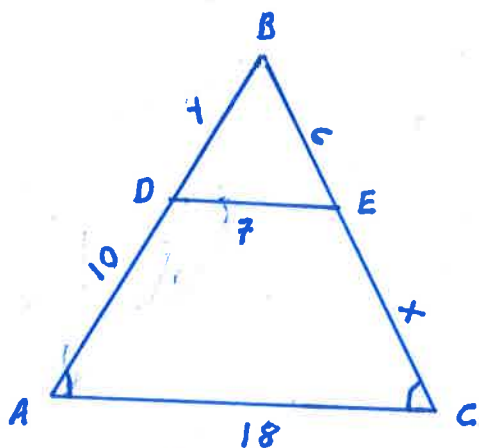


$$\textcircled{1} \quad \frac{\frac{x}{8.0} \cdot 8.0}{3.6} = \frac{3.6 \cdot 8.0}{6.0} \rightarrow x = \frac{3.6 \cdot 8.0}{6.0} = \underline{\underline{4.8}}$$

$$\textcircled{2} \quad \frac{(Y+3.6) \cdot 6.0}{6.0} = \frac{6.0 \cdot 6.0}{3.6} \rightarrow Y+3.6 = 10$$

$$\begin{array}{r} Y+3.6 = 10 \\ -3.6 \quad -3.6 \\ \hline Y = 6.4 \end{array}$$

21.



$$\textcircled{1} \quad \frac{x \cdot (x+6)}{7} = \frac{18 \cdot 6}{7} \rightarrow x+6 = \frac{18 \cdot 6}{7} \approx 15.429$$

$$\begin{array}{r} x+6 = 15.429 \\ -6 \quad -6 \\ \hline x = 9.429 \end{array}$$

$$\textcircled{2} \quad \frac{(Y+10) \cdot Y}{Y} = \frac{18 \cdot Y}{7} \rightarrow$$

$$Y+10 = \frac{18 \cdot Y}{7} \approx 2.571 \cdot Y$$

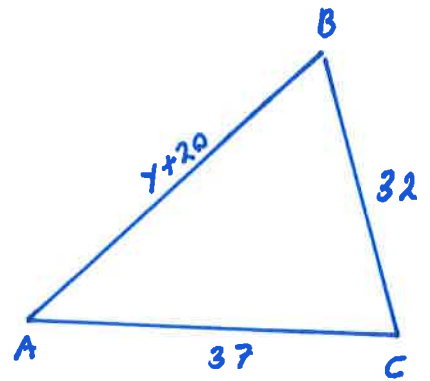
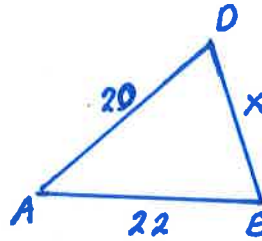
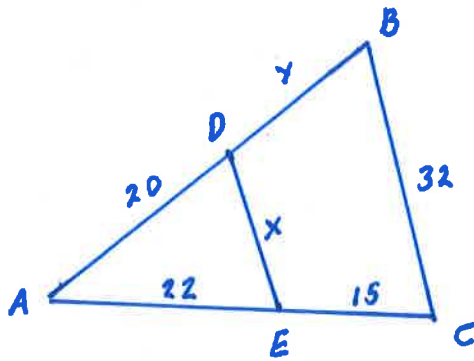
$$Y+10 = 2.571 \cdot Y$$

$$\begin{array}{r} Y+10 = 2.571 \cdot Y \\ -Y \quad -Y \\ \hline 10 = 1.571 \cdot Y \end{array}$$

$$\frac{10}{1.571} = \frac{1.571 \cdot Y}{1.571} \rightarrow Y = \frac{10}{1.571} \approx \underline{\underline{6.365}}$$

Verkefni 2B

22.



$$\textcircled{1} \quad \frac{x}{32} = \frac{22}{37} \cdot 32 \rightarrow x = \frac{22 \cdot 32}{37} \approx \underline{\underline{19,027}}$$

$$\textcircled{2} \quad \frac{(y+20)}{20} = \frac{37}{22} \cdot 20 \rightarrow y+20 = \frac{37 \cdot 20}{22} \approx 33,636$$

$$\begin{array}{r} y+20 = 33,636 \\ -20 \quad -20 \\ \hline y = \underline{\underline{13,636}} \end{array}$$