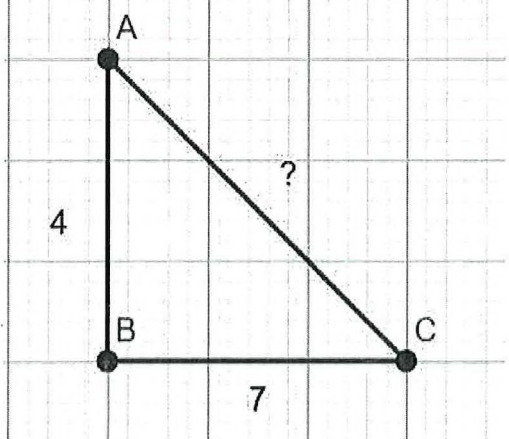
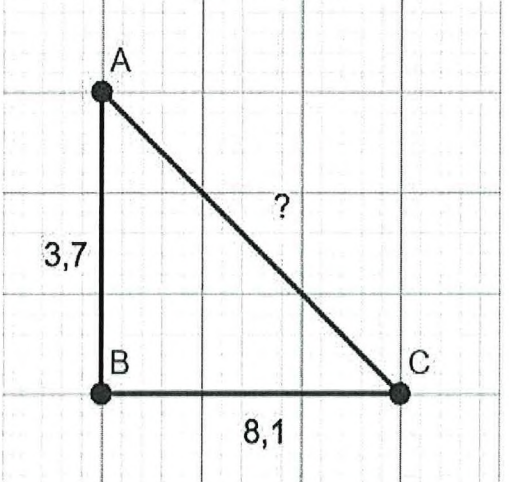
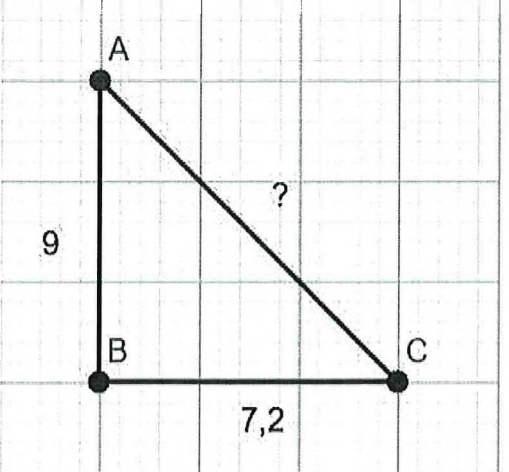
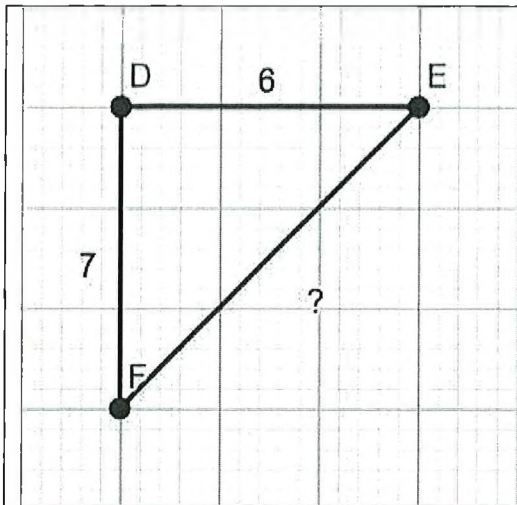


3BKGT Oefenblad – Stelling van Pythagoras

De opdrachten hieronder gaan over de stelling van Pythagoras. De RHZ (rechtthoekszijde) of de SZ (schuine zijde) is onbekend. Het antwoordenblad is te vinden op www.lowikwiskunde.nl

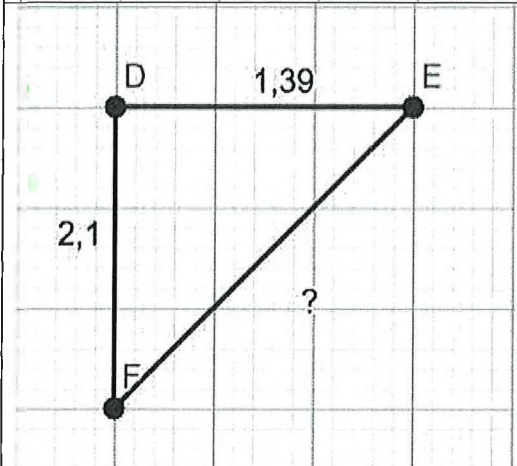
alle antwoorden zijn afgerond op 1 decimaal.

	<p>Opdracht 1</p> $\begin{array}{r} \text{RHZ } 4^2 = 16 \\ \text{RHZ } 7^2 = 49 \\ \hline \text{SZ } ? \quad 65 \end{array} +$ $\sqrt{65} = 8,0622 \dots$ <p>dus $AC = 8,1$</p> <p>① maak het schema ② vul in wat je weet ③ wortel ④ herhaal zyde + antwoord</p>
	<p>Opdracht 2</p> $\begin{array}{r} \text{RHZ } 3,7^2 = 13,69 \\ \text{RHZ } 8,1^2 = 65,61 \\ \hline \text{SZ } ? \quad 79,3 \end{array} +$ $\sqrt{79,3} = 8,905 \dots$ <p>dus $AC = 8,9$</p>
	<p>Opdracht 3</p> $\begin{array}{r} \text{RHZ } 9^2 = 81 \\ \text{RHZ } 7,2^2 = 51,84 \\ \hline \text{SZ } ? = 132,84 \end{array} +$ $\sqrt{132,84} = 11,525 \dots$ <p>dus $AC = 11,5$</p>



Opdracht 4

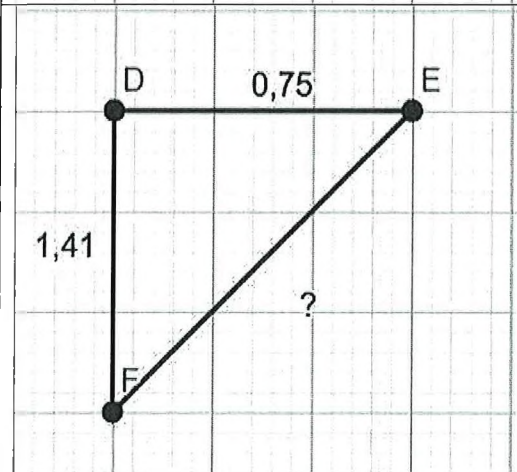
$$\begin{array}{r}
 \text{RHZ } 6^2 = 36 \\
 \text{RHZ } 7^2 = 49 \\
 \hline
 \text{SZ } ? = 85 \\
 \sqrt{85} = 9,219\dots \\
 \text{dus } EF = 9,2
 \end{array}$$



Opdracht 5

$$\begin{array}{r}
 \text{RHZ } 2,1^2 = 4,41 \\
 \text{RHZ } 1,39^2 = 1,9321 \\
 \hline
 \text{SZ } ? = 6,3421 \\
 \sqrt{6,3421} = 2,518\dots\dots \\
 \text{dus } EF = 2,5
 \end{array}$$

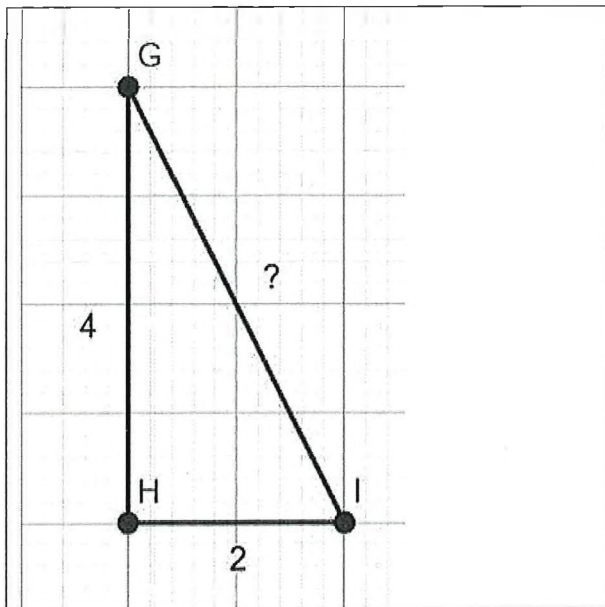
niet afronden



Opdracht 6

$$\begin{array}{r}
 \text{RHZ } 0,75^2 = 0,5625 \\
 \text{RHZ } 1,41^2 = 1,9881 \\
 \hline
 \text{SZ } ? = 2,5506 \\
 \sqrt{2,5506} = 1,597\dots\dots \\
 \text{dus } EF = 1,6
 \end{array}$$

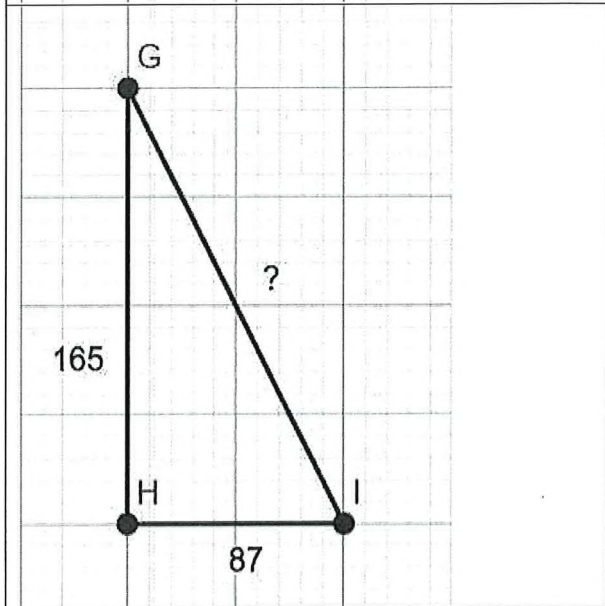
niet afronden



Opdracht 7

$$\begin{array}{r} \text{RHZ } 2^2 = 4 \\ \text{RHZ } 4^2 = 16 \\ \hline \text{SZ } ? = 20 \end{array} +$$

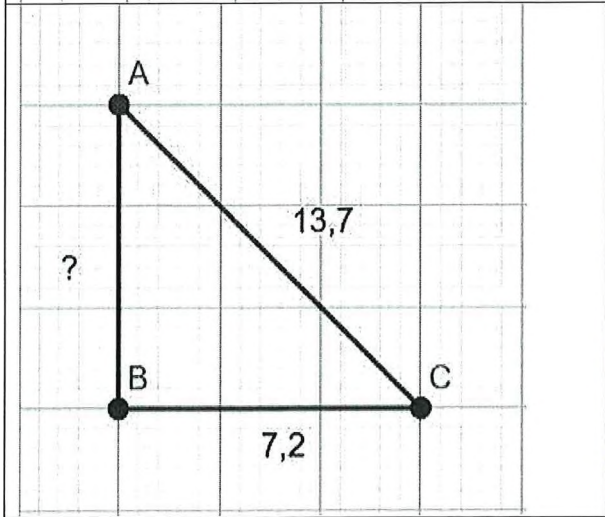
$\sqrt{20} = 4,472\dots$
 dus **GI = 4,5**



Opdracht 8

$$\begin{array}{r} \text{RHZ } 165^2 = 27225 \\ \text{RHZ } 87^2 = 7569 \\ \hline \text{SZ } ? = 34794 \end{array} +$$

$\sqrt{34794} = 186,531\dots$
 dus **GI = 186,5**

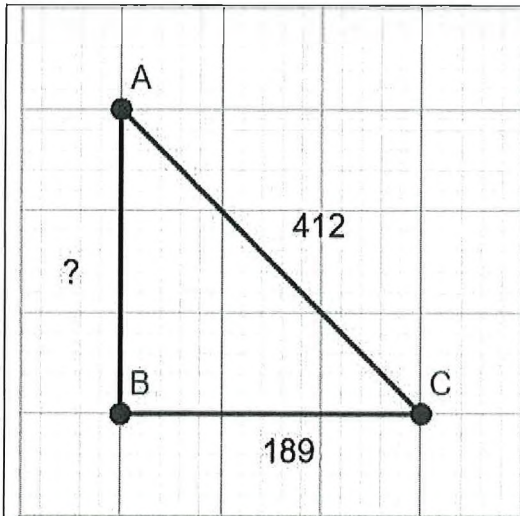


Opdracht 9

Let op SZ bekend
 nu RHZ onbekend!

$$\begin{array}{r} \text{RHZ } 7,2^2 = 51,84 \\ \text{RHZ } ? \\ \hline \text{SZ } 13,7^2 = 187,69 \end{array} +$$

je moet nu **SZ - RHZ** doen
 $187,69 - 51,84 = 135,85$
 $\sqrt{135,85} = 11,655\dots$
 dus **AB = 11,7**



Opdracht 10

$$\text{RHZ } 189^2 = 35721$$

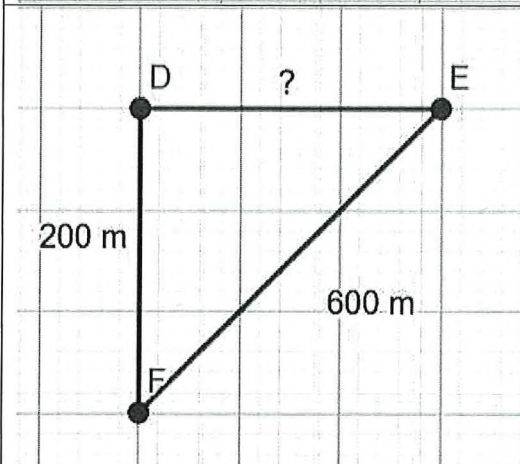
$$\text{RHZ } ?$$

$$\hline \text{SZ } 412^2 = 169744 +$$

$$169744 - 35721 = 134023$$

$$\sqrt{134023} = 366,091\dots$$

$$\text{dus } AB = 366,1$$



Opdracht 11

$$\text{RHZ } 200^2 = 40000$$

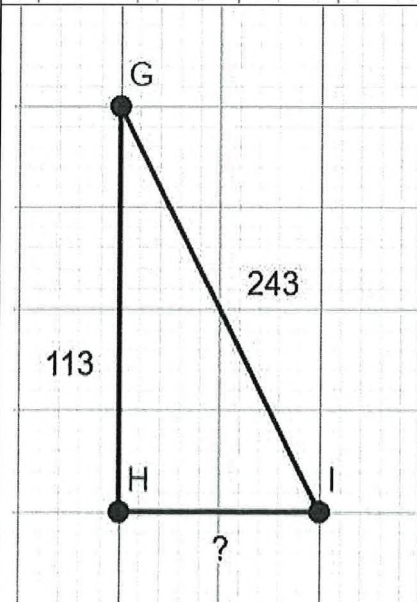
$$\text{RHZ } ?$$

$$\hline \text{SZ } 600^2 = 360000 +$$

$$360000 - 40000 = 320000$$

$$\sqrt{320000} = 565,685\dots$$

$$\text{dus } DE = 565,7$$



Opdracht 12

$$\text{RHZ } 113^2 = 12769$$

$$\text{RHZ}$$

$$\hline \text{SZ } 243^2 = 59049 +$$

$$59049 - 12769 = 46280$$

$$\sqrt{46280} = 215,127\dots$$

$$\text{dus } HI = 215,1$$