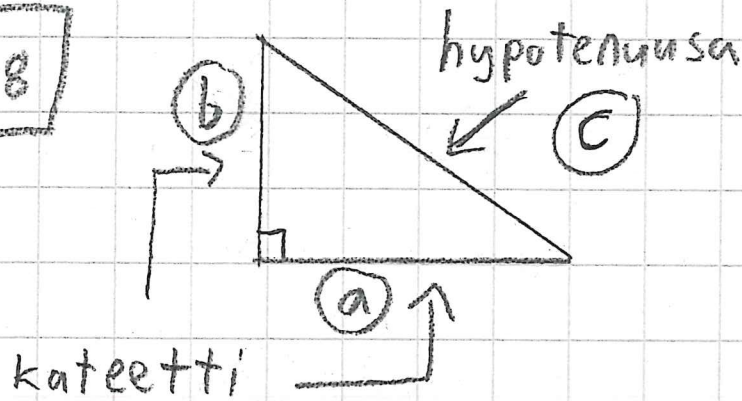
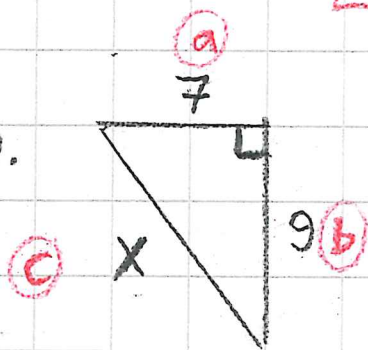


S.48

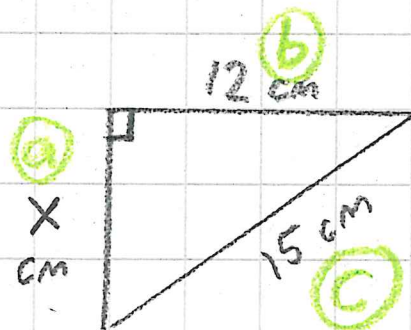


$$a^2 + b^2 = c^2$$

esim.



$$\begin{aligned} 7^2 + 9^2 &= x^2 \\ 49 + 81 &= x^2 \\ 130 &= x^2 \quad // \sqrt{\phantom{x}} \\ x &= \sqrt{130} \\ x &= 11,40... \\ x &\approx 11 \end{aligned}$$



$$\begin{aligned} x^2 + 12^2 &= 15^2 \\ x^2 + 144 &= 225 \quad // -144 \\ x^2 &= 81 \\ x &= \sqrt{81} \\ x &= 9 \text{ cm} \end{aligned}$$

S.49

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$$\begin{aligned}
 \text{a)} \quad 14^2 + 12^2 &= X^2 \\
 196 + 144 &= X^2 \\
 340 &= X^2 \\
 X &= \sqrt{340} \\
 X &= 18,43... \\
 X &\approx 18 \text{ cm}
 \end{aligned}$$

$$\begin{aligned}
 \text{b)} \quad 7^2 + 2^2 &= X^2 \\
 49 + 4 &= X^2 \\
 53 &= X^2 \\
 X &= \sqrt{53} \\
 X &= 7,28... \\
 X &\approx 7 \text{ m}
 \end{aligned}$$

$$\begin{aligned}
 \text{c)} \quad 5,2^2 + 8,3^2 &= X^2 \\
 27,04 + 68,89 &= X^2 \\
 95,93 &= X^2 \\
 X &= \sqrt{95,93} \\
 X &= 9,79... \\
 X &\approx 9,8 \text{ mm}
 \end{aligned}$$

$$\begin{aligned}
 \text{d)} \quad 39^2 + 47^2 &= X^2 \\
 1521 + 2209 &= X^2 \\
 3730 &= X^2 \\
 X &= \sqrt{3730} \\
 X &= 61,07... \\
 X &\approx 61 \text{ dm}
 \end{aligned}$$

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$$a) \quad x^2 + 5,2^2 = 9,4^2$$

$$x^2 + 27,04 = 88,36 \quad \parallel -27,04$$

$$x^2 = 61,32$$

$$x = \sqrt{61,32}$$

$$x = 7,83\dots$$

$$x \approx 7,8 \text{ m}$$

$$b) \quad x^2 + 21^2 = 48^2$$

$$x^2 + 441 = 2304 \quad \parallel -441$$

$$x^2 = 1863$$

$$x = \sqrt{1863}$$

$$x = 43,16\dots \approx 43 \text{ cm}$$

$$c) \quad x^2 + 10,2^2 = 13,7^2$$

$$x^2 + 104,04 = 187,69 \quad \parallel -104,04$$

$$x^2 = 83,65$$

$$x = \sqrt{83,65}$$

$$x = 9,146\dots \approx 9,1 \text{ cm}$$

$$d) \quad x^2 + 0,8^2 = 1,1^2$$

$$x^2 + 0,64 = 1,21 \quad \parallel -0,64$$

$$x^2 = 0,57$$

$$x = \sqrt{0,57}$$

$$x = 0,754\dots$$

$$x \approx 0,8 \text{ m}$$

KOTITEHTÄVÄT

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