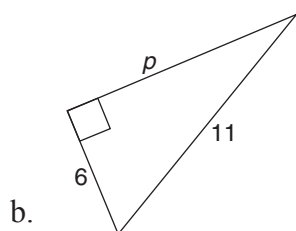
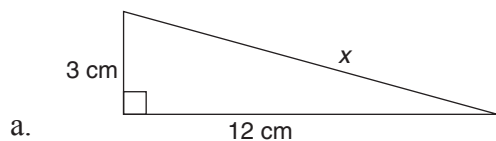




Check Up

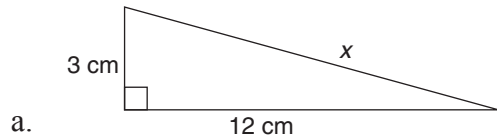
1. Use the Pythagorean theorem to determine the unknown side lengths of the following triangles. Express your answer to the nearest tenth of a unit.



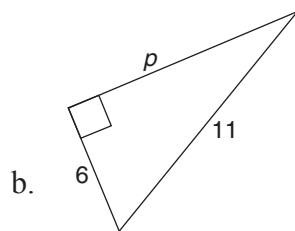


Compare your answers.

- Use the Pythagorean theorem to determine the unknown side lengths of the following triangles. Express your answer to the nearest tenth of a unit.



$$\begin{aligned}
 a^2 + b^2 &= c^2 \\
 (3 \text{ cm})^2 + (12 \text{ cm})^2 &= x^2 \\
 9 \text{ cm}^2 + 144 \text{ cm}^2 &= x^2 \\
 153 \text{ cm}^2 &= x^2 \\
 \sqrt{153 \text{ cm}^2} &= \sqrt{x^2} \\
 12.369... &= x \\
 12.4 \text{ cm} &\doteq x
 \end{aligned}$$



$$\begin{aligned}
 a^2 + b^2 &= c^2 \\
 6^2 + p^2 &= 11^2 \\
 36 + p^2 &= 121 \\
 36 + p^2 - 36 &= 121 - 36 \\
 p^2 &= 85 \\
 \sqrt{p^2} &= \sqrt{85} \\
 p &= 9.219... \\
 p &\doteq 9.2
 \end{aligned}$$