Pythagorean Theorem

\[ a^2 + b^2 = c^2 \]
\[ a^2 + 10^2 = 12^2 \]
\[ a^2 + 100 = 144 \]
\[ a^2 = 44 \]
\[ a = \sqrt{44} \]
\[ a = 6.6 \]

Find the lengths of the missing sides. Use a calculator to solve and round to the nearest tenth.

12 cm
10 cm

11 km

23.2 mm

7 mm

7.7 m
ANSWER KEY

Pythagorean Theorem

\[
\begin{align*}
\alpha^2 + b^2 &= c^2 \\
\alpha^2 + 10^2 &= 12^2 \\
\alpha^2 + 100 &= 144 \\
\alpha^2 &= 44 \\
\alpha &= \sqrt{44} \\
\alpha &= 6.6
\end{align*}
\]

Find the lengths of the missing sides. Use a calculator to solve and round to the nearest tenth.