Pythagoras Theorem


Area of large square

$$
\begin{aligned}
& =(a+b)(a+b) \\
& =a^{2}+a b+a b+b^{2} \\
& =a^{2}+b^{2}+2 a b
\end{aligned}
$$

Area is equilto $4 \Delta s+$ smell spume

$$
\begin{aligned}
& =4\left(\frac{1}{2} a b\right)+c^{2} \\
& =2 a b+c^{2}
\end{aligned}
$$

Shape can hae only ore area

$$
\begin{gathered}
\therefore \quad a^{2}+b^{2}+2 b=c^{2}+245 \\
a^{2}+b^{2}=c^{2}
\end{gathered}
$$

