Use the Pythagorean Theorem to find the missing unit

1. $17, ?, 41$
2. $34, ?, 107$
3. $?, 49, 43$
4. $150, ?, 137$
5. $128, ?, 42$
6. $22, ?, 47$
7. $37, ?, 104$
8. $15, ?, 43$
9. $?, 15, 44$
10. $118, ?, 108$

The theorem states that the square of the hypotenuse is the sum of the squares of the legs. Always understand that the Pythagorean Theorem relates the areas of squares on the sides of the right triangle.
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Use the Pythagorean Theorem to find the missing unit

1. \[ \begin{align*}
&17 \quad 41 \\
&? \\
S &= 37.310
\end{align*} \]

2. \[ \begin{align*}
&34 \quad 107 \\
&? \\
S &= 101.454
\end{align*} \]

3. \[ \begin{align*}
&? \quad 49 \\
&43 \\
S &= 23.495
\end{align*} \]

4. \[ \begin{align*}
&150 \quad 137 \\
&? \\
S &= 61.082
\end{align*} \]

5. \[ \begin{align*}
&128 \quad 42 \\
&? \\
S &= 120.913
\end{align*} \]

6. \[ \begin{align*}
&22 \quad 47 \\
&? \\
S &= 51.894
\end{align*} \]

7. \[ \begin{align*}
&37 \quad 104 \\
&? \\
S &= 97.196
\end{align*} \]

8. \[ \begin{align*}
&15 \quad 43 \\
&? \\
S &= 45.541
\end{align*} \]

9. \[ \begin{align*}
&15 \quad 44 \\
&? \\
S &= 46.487
\end{align*} \]

10. \[ \begin{align*}
&118 \quad 108 \\
&? \\
S &= 47.539
\end{align*} \]