



$$\begin{aligned}
 4^2 + x^2 &= 6.403^2 \\
 x^2 &= -(4^2) + 6.403^2 \\
 x^2 &= -16 + 40.998409 \\
 \sqrt{x^2} &= \sqrt{24.998409} \\
 x &= \pm 4.9998408 \\
 x &= \cancel{+4.9998} \\
 \therefore BC &= \underline{\underline{4.9998 \text{ cm}}}
 \end{aligned}$$