## How do you do this problem?

- The diagram below shows a 20-foot ladder leaning against a wall. The bottom of the ladder is 10 feet from the base of the wall.


[^0]Answer 1
Answer: The pythagorean theorem states that $\mathrm{a}^{2}+\mathrm{b}^{2}=\mathrm{c}^{2}$.
We have $\mathrm{a}=10$ and $\mathrm{c}=20$.
$100+b^{2}=400$
Subtract 100 from each side.
$\mathrm{b}^{2}=300$

Get the square root of 300 .
It could be expressed as b? 17.321, or could stay in radical form as?(300) found or type unknown
Hope this helps!
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1. Home
2. how-do-you-do-this-problem

[^0]:    Based on the dimensions in the diagram what is the value of $x$ ?
    A. 15
    B. 30
    C. 45

