## Algebra I 11-6 Pythagorean Theorem Word Problems

Solve. Make a sketch for each problem. Round answers to the nearest hundredth.

\*1) A 15 foot long ladder leans up against the side of a house. The base of the ladder is 4 feet from the bottom of the house. How far up the wall does the ladder reach?  $\boxed{14.46}$  $a^2+b^2=c^2$  $(4)^2+b^2=(15)^2$  $(4)^2+b^2=(15)^2$  $(4)^2+b^2=(15)^2$  $(5)^2=(15)^2$  $(4)^2+b^2=(15)^2$  $(4)^2+b^2=(15)^2$