## Algebra II

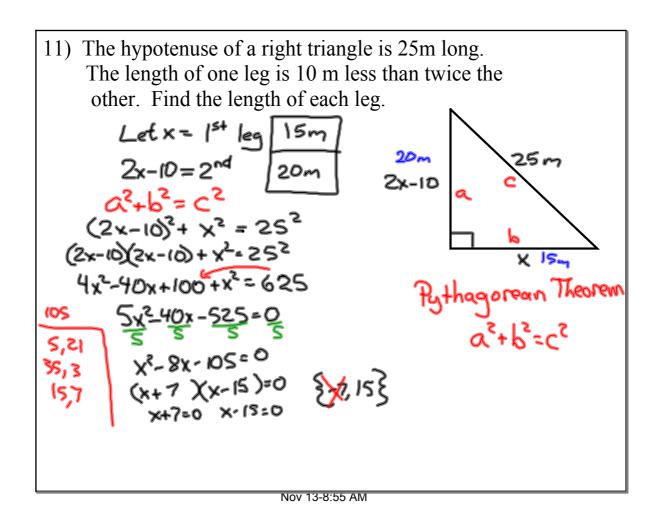
4-8 Word Problems

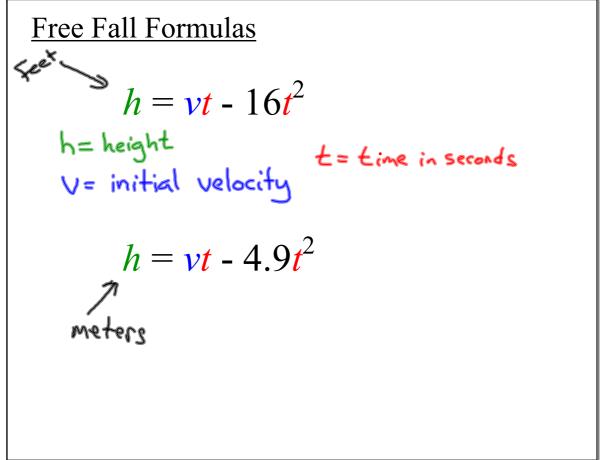
Nov 13-8:52 AM

Solve. (pg 199)

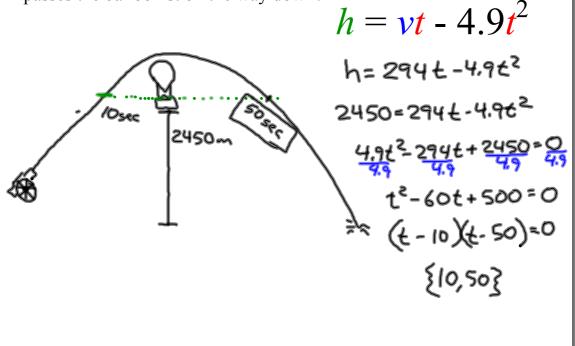
1) The sum of a number and its square is 72. Find the number.

Let 
$$x = + \text{le number } -90-8$$
  
 $X + x^2 = 72$   
 $X^2 + x - 72 = 0$   
 $(x + 9)(x - 8) = 0$   
 $\{-9,8\}$ 





17) A signal flare is fired upward from ground level with an initial speed of 294 m/sec. A balloonist cruising at a height of 2450 m sees it pass on the way up. How long will it be before the flare passes the balloonist on the way down?



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