Algebra II

4-8 Word Problems

Solve. (pg 199)

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

11) The hypotenuse of a right triangle is 25m long. The length of one leg is 10 m less than twice the other. Find the length of each leg.

Free Fall Formulas

$$h = vt - 16t^2$$
 $h = vt - 4.9t^2$

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?

Assignment: Pg. 199 2-30 even (skip 26)