

### HW 3.7 – Optimization Problems

- 1.) Find two numbers whose sum is 10 for which the sum of their squares is a minimum.
  
  
  
  
  
  
  
  
  
  
- 2.) Find nonnegative numbers  $x$  and  $y$  whose sum is 75 and for which the value  $xy^2$  is as large as possible.
  
  
  
  
  
  
  
  
  
  
- 3.) A ball is thrown straight up in the air from ground level. Its height after  $t$  seconds is given by  $s(t) = -16t^2 + 50t$ . When does the ball reach its maximum height? What is its maximum height?
  
  
  
  
  
  
  
  
  
  
- 4.) A farmer has 2,000 feet of fencing to enclose a pasture area. The field will be in the shape of a rectangle and will be placed against a river where there is no fencing needed. What is the largest area field that can be created and what are its dimensions?



# Optimization Problems Homework

**Tao Wei**



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