Concentrate on the process as well as the final result, and show all your steps clearly so you will be eligible for the most partial credit. Good luck!

1.) A square-bottomed box with no top has a fixed volume of 100 cm$^3$.
   a.) (4pts.) Draw and label an appropriate picture.
   b.) (3 pts.) Suppose you want to minimize surface area. What two equations will you need?
   c.) (3 pts.) Combine the two equations from part (b.) into the one equation you wish to minimize. STOP HERE.