



## ***In Class Exercises (ICE) - 11/17/00***

***To celebrate the holiday season, your neighborhood holds an annual house decorating contest. Two of your neighbors (one a retired proctologist, the other the host of a low-rated cable tool show) have developed a bitter rivalry to see who can create the brightest display.***

- ***The two highly decorated houses are 200 meters apart. Draw and label a diagram that shows the situation.***

- ***The brightness of light is directly proportional to the brightness of the source and inversely proportional to the square of the distance from the source. Write a formula that gives the brightness of light if you stand between the two houses.***

- ***The tool-man's house is twice as bright as the doctor's house. Where should you stand if you want to experience the lowest levels of light?***