

1. There will be one proof on the exam and it will come from the following list.
 - Area of a parrallelogram.
 - Area of a trapezoid.
 - Pythagorean theorem.
 - Volume of a spere.
2. Estella states that since there's a third power in the volume formula for a sphere and a squared in the formula for surface area, that the volume of a sphere is of radius r is always greater than it's surface area.
 - Does Estella's statement make sense?
 - Is the idea behind Estella's statement true?
 - How would you explain your answers above to Estella who is a fifth grader?
3. The planet Mercury is approximately spherical with radius $1,516mi$. What is the surface area and volume of the planet Mercury? (This is problem 6c on the posted review)
4. The volume of a right regular pyramid with a square base $6m \times 6m$ and slant height $5m$.
5. Find the area of the parallelogram below and compute the length X . (This is problem 4 on the posted review)

