Pond Surface Area and Volume Calculations

1. Calculate the surface area in acres of a rectangular pond 250 feet wide and 700 feet long.

2. Calculate the surface area in hectares of a rectangular pond 80 meters wide and 230 meters long.

3. Calculate the surface area in acres of an almost square pond with widths of 150 feet and 175 feet, and lengths of 300 feet and 270 feet.

4. Calculate the surface area in hectares of an almost square pond with widths of 30 meters and 39 meters, and lengths of 95 meters and 87 meters.

5. Calculate the volume in acre feet of the rectangular pond in question 1 if the depth was 3 feet. How many gallons does this pond contain?

6. Calculate the volume of the pond in question 5 if the slope of the levees is 3:1, meaning the run of the levee is 9 feet and the rise of the levee is 3 feet . How did you account for the levees?