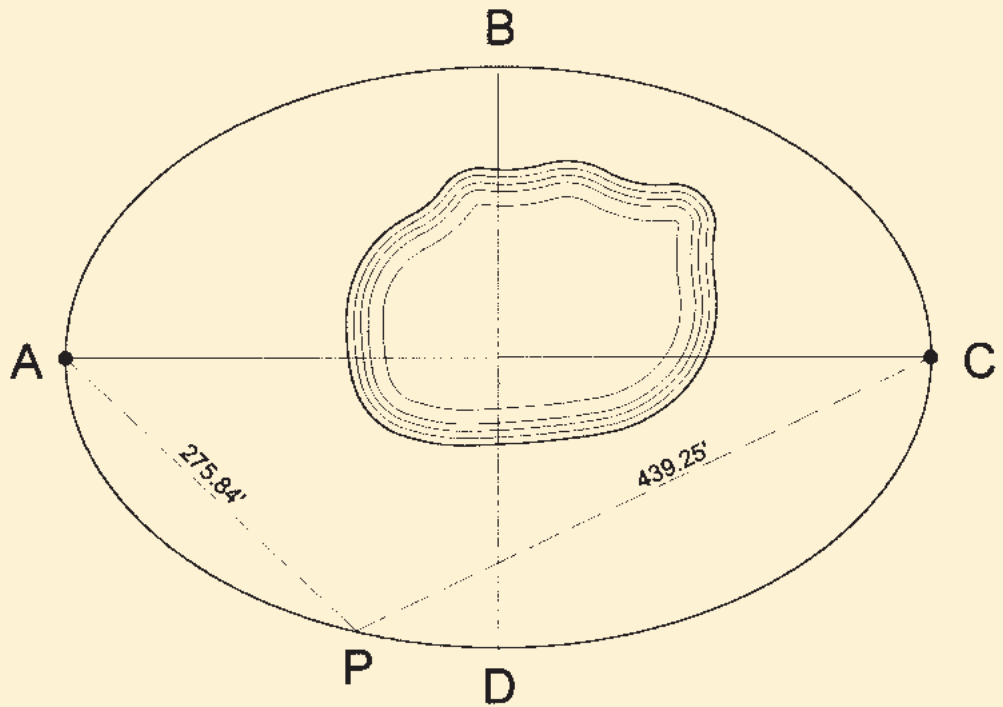
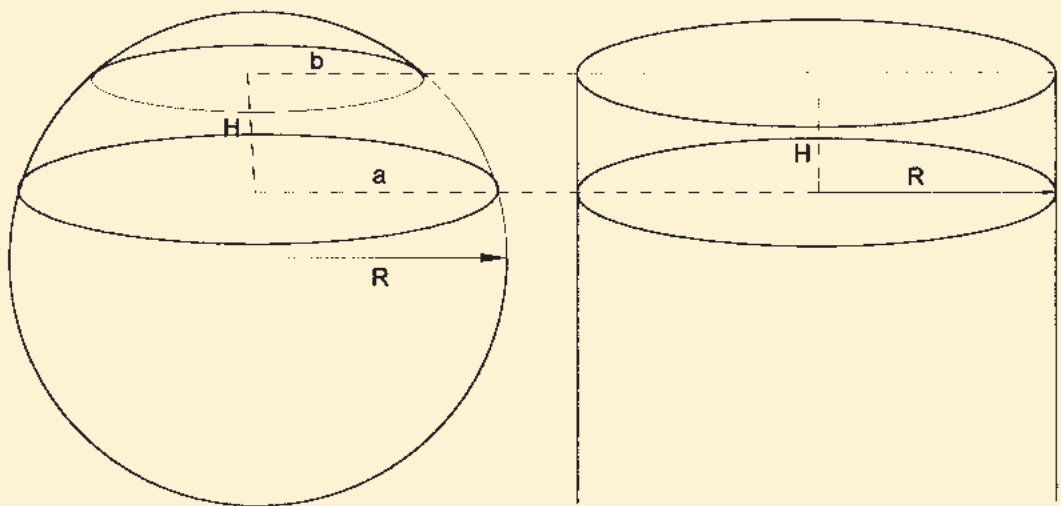
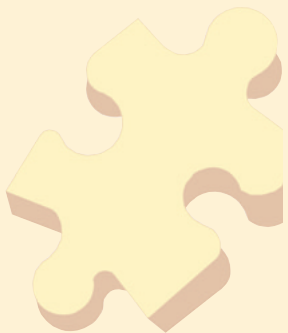


Problem 65



Given points "A" and "C" 600.00 feet apart, you are to establish an ellipse around the lake without setting your instrument on either point "A" or point "C". Points "B" and "D" are to be 400 feet apart. If you set up at arbitrary point "P" and measure 275.84 feet to point "A" and 439.25 feet to point "C", are you on the ellipse? How do you get to point "D"?

Problem 66



A sphere of radius R and cylinder of radius R are cut by two parallel planes that are perpendicular to the axis of the cylinder. How much greater in area is the "band" cut out of the cylinder than the "zone" cut out of the sphere?

The problems for this column are contributed by retired California surveyor Dave Lindell, LS.

Solutions can be found on our website at www.profsurv.com