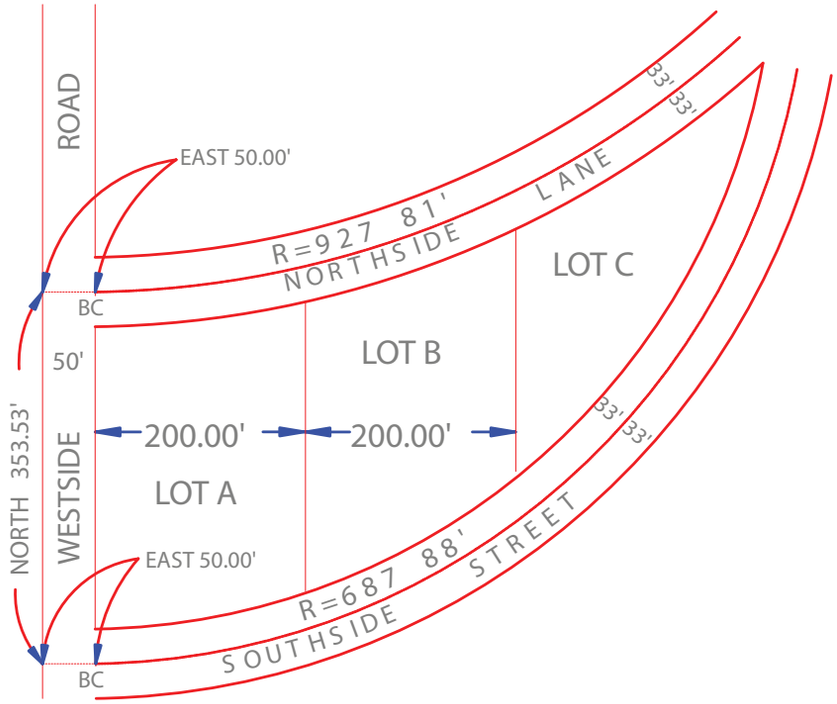
Problem 156

by Dave Lindell, L.S.

What are the dimensions and area of lot C, (including radial bearings to the corners)?



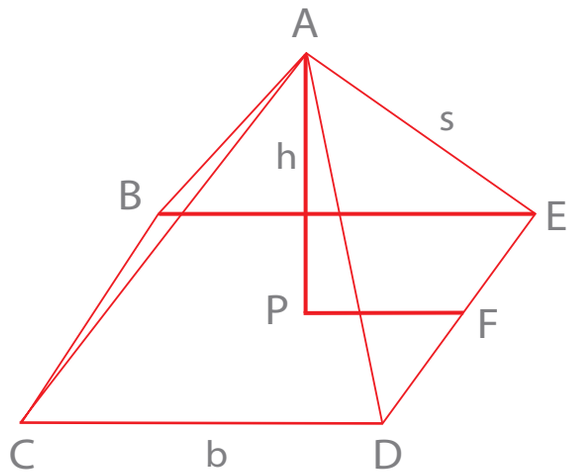
Problem 157

by Benjamin Bloch, Ph.D.

Great Pyramid at Giza Problem

The Great Pyramid at Giza was designed so that the perimeter of its square base was equal to the circumference of a circle whose radius is the pyramid's height. (This is called Squaring the Circle.)

The following is a representation of the Great Pyramid at Giza. The base BCDE is a square with side b. Point P is at the center of the base; AP is the pyramid height h, and the length of each pyramid side is s.



From this information determine:

1- The Great Pyramid angle, the numerical value in degrees of the angle formed by each face, such as ADE, with the horizontal.

2- The approximate area of each face in terms of the pyramid height, h.

3- The approximate value of the length of side s in terms of the height, h.

Solutions are on our website at *www.profsurv.com*

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