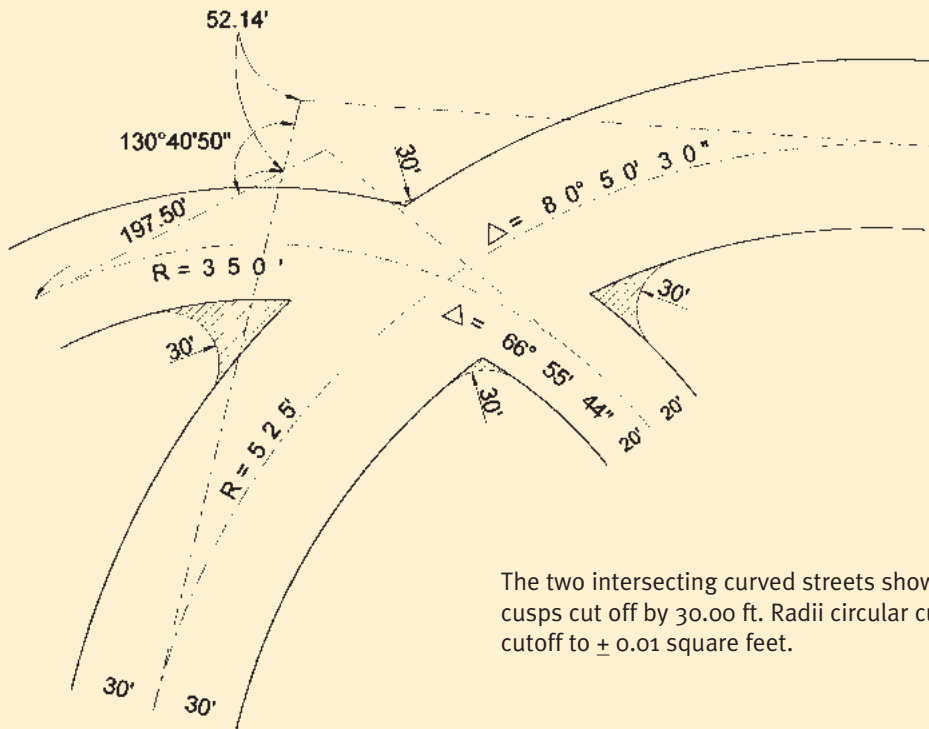


Problem 63



The two intersecting curved streets shown are to have the property line cusps cut off by 30.00 ft. Radii circular curves calculate the area of each cutoff to ± 0.01 square feet.

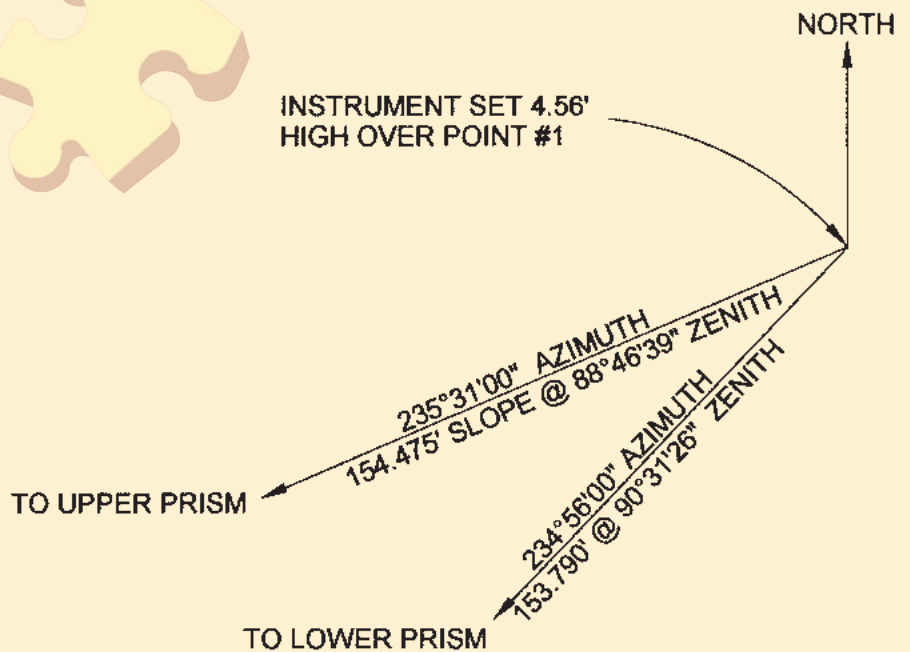
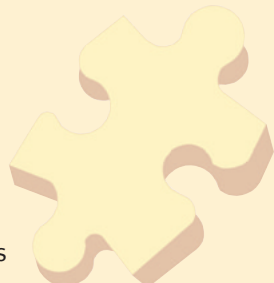
Problem 64

A difficult-to-reach drain requires coordinates and an elevation.

An extension and an additional prism is added to the top of the prism pole assembly so that it has two prisms 5.00 feet apart.

If the point of the pole is 12.00 feet below the lower prism and the prism pole is held so it is leaning away and to the right (as seen by the instrument operator) and the measurements to the two prisms are as shown, what are the coordinates and elevation of the drain?

Point #1 is North 1234.567, East 6543.21 with an elevation of 784.54 feet.



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