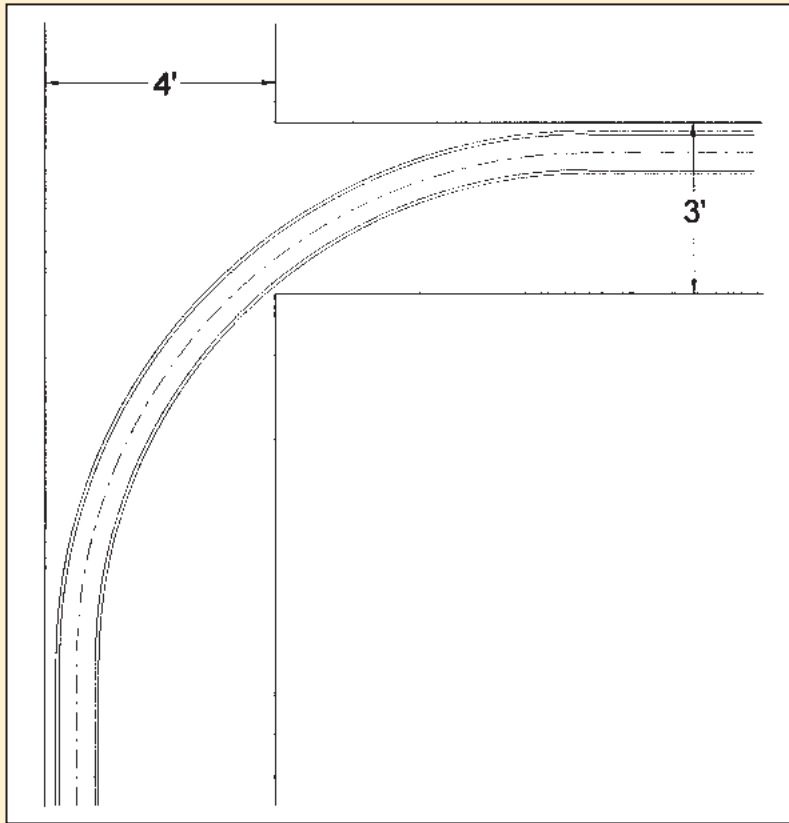




# Problem 57



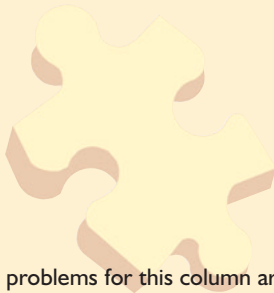
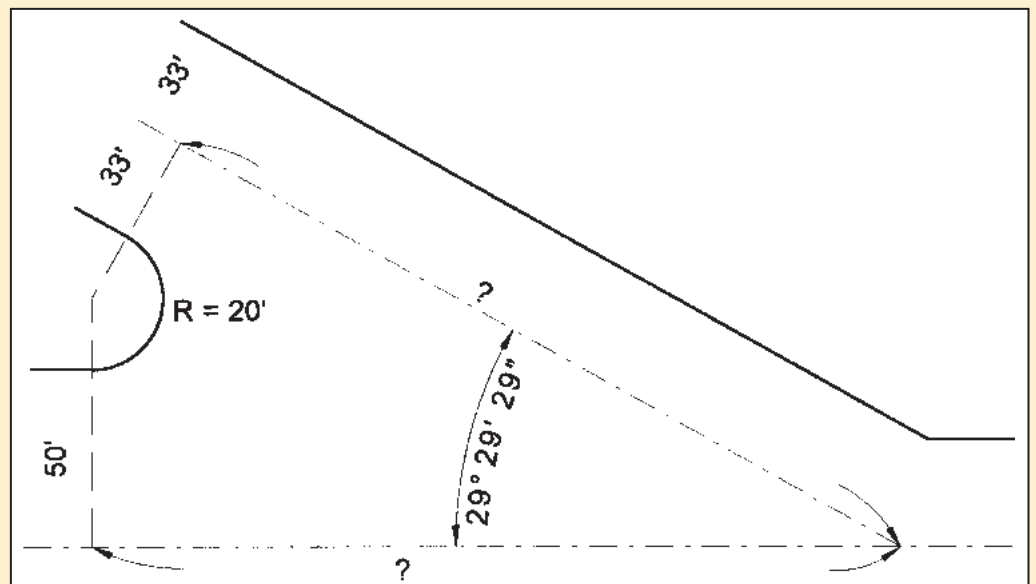
A model train track is to be laid from a 3 foot hallway to a 4 foot hallway. If the longest car is 19 inches long and  $4 \frac{1}{8}$  inches wide with truck pivot points  $3 \frac{3}{4}$  inches from each end, what is the longest radius that can be used?

This problem was suggested by John Halleck of Salt Lake City.



# Problem 58

A 100 foot wide street meets a 66 foot wide street at the angle shown. What are the distances to points perpendicular to the radius point?



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