Question (1)

What are advantages, if any, for using spirals?

Question (2)

How is the Offset PC (OPC) defined?

Question (3)

_____ is inclining the pavement in order to use a component of a vehicle's weight to help offset _____ .

Question (4)

An entrance spiral starts with a radius of ______.

Question (5)

450.00 ft long entrance and exit spirals will be used with a 3000.00 radius circular curve. The PI station is 52+00 with a Δ angle of 47°00′ Left.

Part (1) What is the total deflection angle of the entrance spiral at the TS?

Part (2) What is length of the circular curve?

Part (3) What is the deflection angle at the TS to the spiral midpoint?

Question (6)

A 300.00 ft long spiral will be used with a 3°00' circular curve. The PI station is 40+00 and the Δ angle is 60°00' Right. Using the Approximate Method, compute the five-chord deflection angle notes for the spirals.

Question (7)

A 275.00 ft long spiral will be used with a 2500.00 ft radius circular curve. The PI station is 63+00 and the Δ angle is 38°00' Left. Determine the curve system endpoint stations.