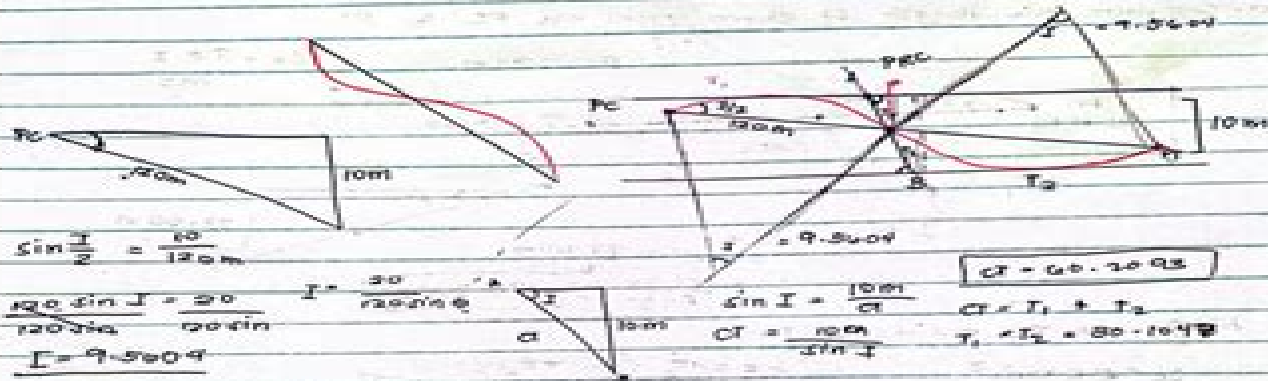


Reverse Curve

② parallel and unequal curves

- ① Two tangents 10m apart are connected by a reverse curve. The chord length from PC to PT is 120m.  
a. Compute the length of tangent with common direction



b. Determine the equal radius.

$$L_c = \pi R I$$

$$120m = \pi R I$$

$$180^\circ$$

$$I = 9.5609^\circ$$

$$20.1047 = R \tan \frac{I}{2}$$

$$R = 237.9819 \approx 238$$

$$R = R_1 + R_2$$

$$R_1 = R_2 = 237.9819$$

c. Compute the stationing of the PRC if the stationing of A is 2+920

beginning of the common direction is 2+920

$$PC = Sta. A - T_1$$

$$PC = 2+920 - 80.1047$$

$$PC = 3+839.8953$$

$$L_c = \pi R I$$

$$180^\circ$$

$$L_c = 60.0693$$

$$PRC = PC + L_c$$

$$PRC = 3+839.8953 + 60.0693$$

$$(PRC = 3+900.9646)$$

# Fundamentals Of Surveying Sample Questions Solutions

**Jerry A. Nathanson, Philip Kissam**



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