**Angle (A) between the straight lines**:

y =g1x + i1

y =g2x + i2

cos(A1 – A2) = cosA1cosA2 - sinA1sinA2

**Parabolic form of a light cord of a heavy bridge**:

y = ax2 + c

c = H – D

Here H is the height of the pillar of the bridge, D is the deflection of the cord, L is half-length of the bridge.