



METRIC EQUATION

$$1. E = \frac{AL}{800}$$

$$2. y = \frac{4 D^2 E}{L^2}$$

$$y = \frac{D^2 A}{200L}$$

Where:

G_1, G_2 = Tangent grades,
in percent

E = Ordinate from P.I.
to curve, in meters

A = $G_1 - G_2$, The algebraic
difference in grade

L = Length of curve,
in meters

y = Ordinate from tangent
to curve, in meters

D = Distance from nearest
P.C. or P.T. to any point
on curve, in meters

VERTICAL CURVE (METRIC)