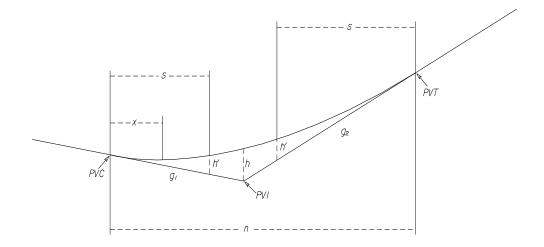
VERTICAL CURVE FORMULAE



h = center orientation

h' - correction at any point on curve n = length of vertical curve in feet

 g_s = grade in expressed as feet per foot. For example, 2% would be expressed as 0.02. g_s = grade out expressed the same as grade in.

 \dot{s} = horizontal distance, on curve measured from nearest end of curve, in feet.

x = horizontal distance, in feet, messurse from PVC to point on curve y = elevation of any point on vertical curve in feet y = elevation at PVC, in feet

1)
$$h = \frac{n}{8} (g_1 - g_2)$$

2)
$$h' = h(\frac{2s}{n})^2$$

Elevation Equation for any point on curve; $y = y^* \cdot g(x) + (\frac{g_2 - g_1}{2n})(x)^2$

Equation for Low or High Point of Curve: $x = (\frac{-gn}{g_2 - g_1})$