Important Parabolic and Transition Curves Formulas PDF





1.6) Length of Curve using Rate of change of Grade in Parabolic Curves Formula 🕝

Formula	Example with Units
$=\frac{G_2 - (-G_I)}{R_g}$	$0.3564_{\rm m} = \frac{8 - (-10)}{50.5_{\rm m^{-1}}}$

L_{Pc}

1.7) Rate of Change of Grade given Distance from PVC to Lowest Point on Sag Curve Formula



Evaluate Formula 🦳



Variables used in list of Parabolic and Transition Curves Formulas above

- ac Rate of Increase of Radial Acceleration
- E₀ Elevation of Point of Vertical Curve (Meter)
- E_s Elevation of Lowest Point on a Sag Curve (*Meter*)
- G₂ Grade at End of Curve
- GI Grade at Beginning of Curve
- L Minimum Length of Spiral (Meter)
- Lc Length of Curve (Meter)
- Lpc Length of Parabolic Curves (Meter)
- R_g Rate of Change of Grade (Per Meter)
- Rt Radius of Curve (Meter)
- V Elevation of Point of Vertical Intersection (*Meter*)
- V_v Vehicle Velocity (Kilometer per Hour)
- X_s Distance from PVC to Lowest Point on a Sag Curve (Meter)

Constants, Functions, Measurements used in list of Parabolic and Transition Curves Formulas above

- Measurement: Length in Meter (m)
 Length Unit Conversion
- Measurement: Speed in Kilometer per Hour (km/h)

Speed Unit Conversion 🕝

 Measurement: Linear Atomic Density in Per Meter (m⁻¹)
 Linear Atomic Density Unit Conversion C

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