





· a = (dv) et + en. 1 . v2 : a = (dv) et + (v2) en compairing with, a = (9+) e+ + (an) en We get, ·at = dv => Tongential Component an= 12 => Normal -11- -11-Magnitude a = 1 972 + an2 dir tand = app at -> an is always directed towards centre -> at is positive it speed is increasing > at is negative if speed is decreasing

Radius of curvature

[1+ (dy/dx)] 273/2

dry/dx2