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$x = ds$  ?  $\frac{dx}{ds} = \frac{dx}{dy} \frac{dy}{ds} =$

$y$  (4.2) From

basic calculus,

the radius of

curvature of a

planar curve is

given by  $\rho = \frac{1 + \left(\frac{dv}{dx}\right)^2}{d^2v/dx^2}$

(4.3)

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$U_4 = 3W/k$

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