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solution (the solution step) of the  
algebraic equations represented  
by Equation 6 yields the.

displacements as  $U_2 = W/k$   $U_3 =$   
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reaction force as  $F1 = -3W$  (This is. postprocessing.)

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strain is then  $\epsilon_x = \frac{ds}{dx} - \frac{dx}{dx} = \left( \frac{dy}{dx} \right) \frac{dy}{dx} - 1 = \left( \frac{dy}{dx} \right)^2 - 1$  (4.2) From basic calculus, the radius of curvature of a planar curve is given by  $\rho = \frac{1}{\sqrt{1 + \left( \frac{dy}{dx} \right)^2}}$  (4.3)

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Equation 6 yields the displacements as  $U_2 = \frac{W}{k}$  and  $U_3 = \frac{2W}{k}$  and Equation 5 gives the reaction force as  $F_1 = -3W$  (This is postprocessing.)  $U_4 = \frac{3W}{k}$

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