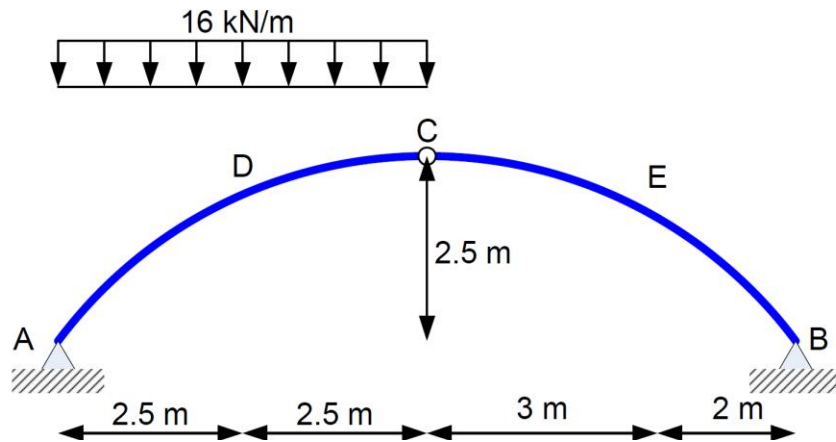EXAMPLE 2

- Determine the internal forces at the points D and E in the three hinge parabolic arch as shown in figure below.

Solution
Example 2…

Apply equation of equilibrium, consider the whole structure then taking moment about A and B.

$$V_A = 60kN, \quad V_B = 20kN$$

Consider RHS or LHS, take moment about C is equal

$$H = 40kN$$