## CE222 STRUCTURAL MECHANICS I DEPARTMENT OF CIVIL ENGINEERING Quiz 2; March 28, 2019, 9-10pm

## Problems carry equal weightage

## **Problem 1**

For the beam shown in Figure 1, use the conjugate beam method to calculate vertical deflection at C and rotation at point E.

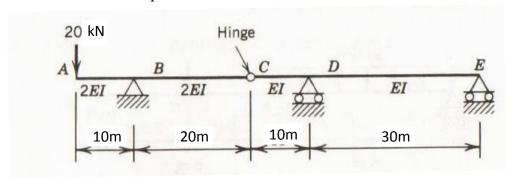


Figure 1

## **Problem 2**

Calculate reaction at E and force in member BD of the truss shown in Figure 2. Assume AE same for all members.

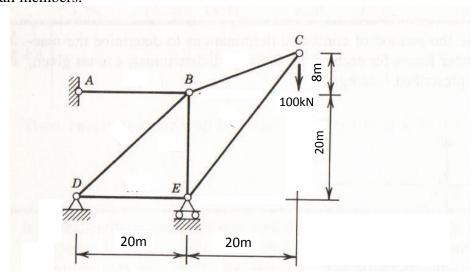


Figure 2

