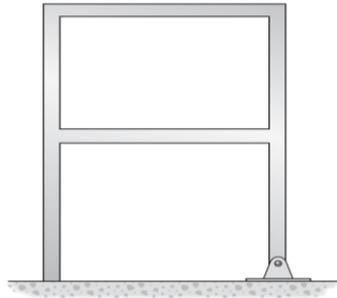


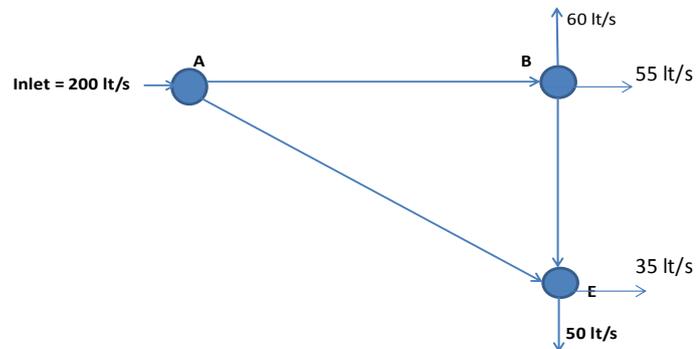
1. degree of indeterminacy. All internal joints are fixed connected.



- A. Determinate  
 B. Indeterminate to 2nd degree  
**C. Indeterminate to 5th degree**  
 D. Indeterminate to 6th degree
2. A one unconsolidated undrained triaxial test was performed for a saturated clay sample. The confining chamber stress was 30 kPa. The added axial stress at failure was 70 kPa. What is the undrained cohesion of the soil?

- A. 70 kN/m  
 B. 100 kN/m  
**C. 35 kN/m**  
 D. 50 kN/m

3. Assume flow rate at line AB is 120 liter/sec, the flow rate in line BE is:



- A. 105 lt/sec  
 B. 80 lt/sec  
**C. 5 lt/sec**  
 D. 85 lt/sec