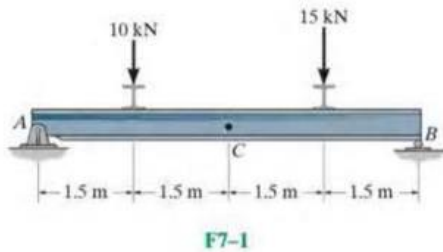


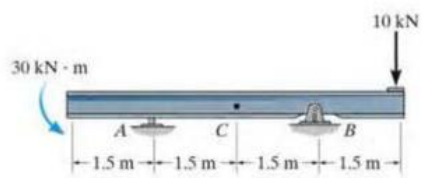
ENGR 8 Assignment 11 In-Class Exercises  
Ch7 - F1,F2,F3,5,23,F7, F8, F9,45,57

**F7-1.** Determine the normal force, shear force, and moment at point *C*.



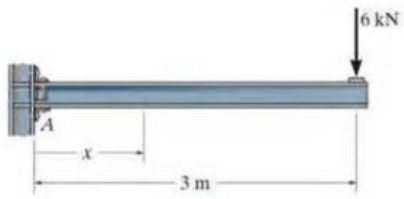
$$N_c = 0, V_c = 1.25 \text{ kN}, M_c = 18.75 \text{ kN}\cdot\text{m}$$

**F7-2.** Determine the normal force, shear force, and moment at point *C*.



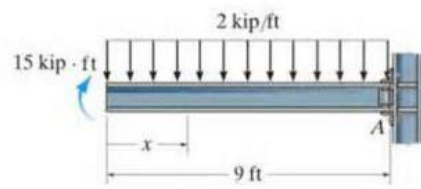
$$N_c = 0, V_c = 5 \text{ kN}, M_c = -22.5 \text{ kN}\cdot\text{m}$$

**F7-7.** Determine the shear and moment as a function of  $x$ , and then draw the shear and moment diagrams.



$$V = 6 \text{ kN}, M = (6x - 18) \text{ kN}\cdot\text{m}$$

**F7-8.** Determine the shear and moment as a function of  $x$ , and then draw the shear and moment diagrams.



$$V = -2x \text{ kip}, \quad M = (15 - x^2) \text{ kip-ft}$$