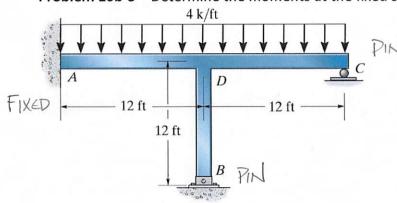
Problem 10b-5 – Determine the moments at the fixed support A and joint D. Assume B is pinned and El is constant.



$$M_{DC} = \frac{3EI}{12'} \left[\Theta_{P} \right] - 72kft \qquad \boxed{3}$$

$$M_{PB} = \frac{3EI}{12I} \left[\Theta_{P} \right]$$

Problem 10b-5 – Determine the moments at the fixed support A and joint D. Assume B is pinned and El is constant.

$$M_{AD} = \frac{2EI}{12'} [\Theta_D] - 48kft = -43.2kft$$

$$M_{DX} = \frac{2EI}{12'} [2\Theta_D] + 48kft = -57.6kft$$

$$M_{DC} = \frac{3EI}{12'} [\Theta_D] - 72kft = -64.8kft$$

$$M_{DR} = \frac{3EI}{12'} [\Theta_D] = 7.2kft$$

$$M_{DR} = \frac{3EI}{12'} [\Theta_D] = 7.2kft$$