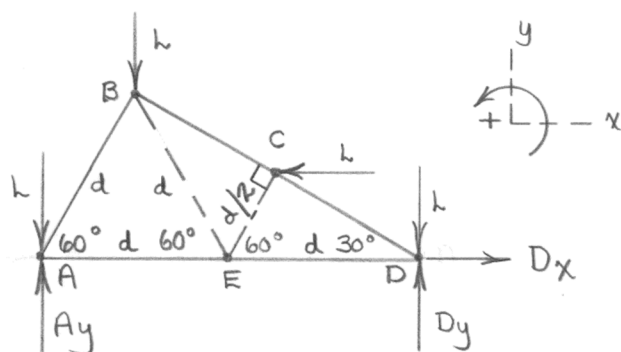


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$$\sum F_x = 0: D_x - L = 0, \quad \underline{D_x = L}$$

$$\sum F_y = 0: A_y + D_y - 3L = 0$$

$$\sum M_A = 0: D_y(2d) + L\left(\frac{d}{2}\frac{\sqrt{3}}{2}\right) - L\left(\frac{d}{2}\right) - L(2d) = 0$$

$$\text{Solving the last 2 equations: } A_y = \frac{L}{4}\left(7 + \frac{\sqrt{3}}{2}\right)$$

$$\underline{D_y = \frac{L}{4}\left(5 - \frac{\sqrt{3}}{2}\right)}$$

$$(\text{or } A_y = 1.967L, \quad D_y = 1.033L)$$

WILEY