

$$U_B = \dots \quad \sum M(B) = 0$$

$$\cos \beta_B = \frac{2}{\sqrt{5}}$$

$$\checkmark M(B)_{,0} - U_B \cdot \cos \beta_B \cdot h_B - H \cdot y(B) = 0$$

$$U_B = \frac{1}{\cos \beta_B} \left(\frac{M(B)_{,0}}{h_B} - H \cdot \frac{y(B)}{h_B} \right)$$

$$= \frac{\sqrt{5}}{2} \left(\frac{M(B)_{,0}}{2} - \frac{11,375}{2} H \right)$$

$$= \frac{\sqrt{5}}{14} M(B)_{,0} - \frac{\sqrt{5} \cdot 13}{16} H$$

$$O_B = \dots \quad \sum M_B = 0$$

$$\cos \alpha_B = \frac{5}{\sqrt{26}}$$

$$\checkmark M_B,0 + O_B \cdot \cos \alpha_B \cdot h_B - H \cdot y_B = 0$$

$$h_B = 7$$

$$y_B = 4,375$$

$$O_B = \frac{1}{\cos \alpha_B} \left(-\frac{M_B,0}{h_B} + H \cdot \frac{y_B}{h_B} \right)$$

$$= \frac{\sqrt{26}}{5} \left(-\frac{M_B,0}{7} + \frac{5}{8} H \right)$$

$$= -\frac{\sqrt{26}}{35} M_B,0 + \frac{\sqrt{26}}{8} H$$

$$D_B = \dots \quad \sum M_B = 0$$

$$\cos \beta_B = \cos \beta'_B = \frac{40}{\sqrt{3281}}$$

$$\checkmark M_B,0 + D_B \cdot \cos \beta_B \cdot h_B = 0$$

$$h_B = 15 - 20 \cdot \frac{1}{5} = 11$$

$$D_B = -M_B,0 \cdot \frac{1}{\cos \beta_B \cdot h_B}$$

$$D_B = -\frac{\sqrt{3281}}{40 \cdot 11} M_B,0$$

$$U_B = \dots \quad \sum M(B) = 0$$

$$\cot \beta_B = 1$$

$$\checkmark M(B)_{,0} - U_B \cdot \cos \beta_B \cdot h_B - H \cdot y(B) = 0$$

$$\cos \beta_B = \frac{\sqrt{2}}{2} = \frac{1}{\sqrt{2}}$$

$$U_B = \frac{1}{\cos \beta_B} \left(\frac{M(B)_{,0}}{h_B} - H \cdot \frac{y(B)}{h_B} \right) =$$

$$y(B) = h_B = 11$$

$$= \sqrt{2} \left(\frac{M(B)_{,0}}{11} - H \right)$$