

$$D_5 = \sqrt{2} \left(\frac{M_{(4),0}}{h_4} - \frac{M_{(5),0}}{h_5} + H \left(\frac{y_{(4)}}{h_4} - \frac{y_{(5)}}{h_5} \right) \right)$$

$$= \sqrt{2} \left(\frac{1}{5} (M_{(4),0} - M_{(5),0}) + \frac{1}{8} H \right)$$

$$y_{(4)} = 10 + 15 \cdot \frac{1}{8} - \frac{35}{8}$$

$$y_{(5)} = 10 + \frac{20}{8} - \frac{100}{8}$$

$$V_4 = -\frac{1}{\sqrt{2}} \left(\sqrt{2} \left(\frac{1}{5} (M_{(4),0} - M_{(5),0}) - \frac{1}{8} H \right) + \sqrt{2} \left(\frac{1}{5} (M_{(4),0} - M_{(5),0}) + \frac{1}{8} H \right) \right)$$

$$= -\frac{1}{5} M_{(4),0} + \frac{1}{5} M_{(5),0} - \frac{1}{5} M_{(4),0} + \frac{1}{5} M_{(5),0}$$

$$= \frac{1}{5} (M_{(5),0} + M_{(5),0} - 2 M_{(4),0})$$

$$h_4 = h_5 = 5$$

$$O_{(8)} = \dots$$

$$\sum M_7 = 0 \quad \curvearrowright M_{(7),0} + O_{(8)} \cdot h_7 \cdot \cos \alpha_8 - H \cdot y_7 = 0$$

$$\tan \alpha_8 = \frac{5}{25} = \frac{1}{5}$$

$$\cos \alpha_8 = \frac{5}{\sqrt{26}}$$

$$y_7 = 10 - \frac{10}{8} - \frac{5}{2} = \frac{25}{4}$$

$$O_{(8)} = \frac{\sqrt{26}}{5} \left(-\frac{M_{(7),0}}{5,5} + \frac{25}{22} H \right)$$

$$\tan \beta_8 = \frac{5}{10} = \frac{1}{2}$$

$$h_7 = 10 - 10 \cdot \frac{1}{5} - 5 \cdot \frac{1}{2} = 5,5$$

$$D_8 = \dots \quad \sum M_8 = 0$$

$$\curvearrowright M_{(8),0} + O_{(8)} \cdot \cos \alpha_8 \cdot h_8 + D_8 \cos \beta_8 \cdot h_8 - H \cdot y_8 = 0$$

$$= 5,5$$

$$D_8 = \frac{1}{\cos \beta_8} \left(-\frac{M_{(8),0}}{h_8} - \frac{O_{(8)} \cdot \cos \alpha_8 \cdot h_8}{h_8} + H \cdot \frac{y_8}{h_8} \right)$$

$$= -\frac{1}{\cos \beta_8} \left(-\frac{M_{(8),0}}{h_8} - \frac{\sqrt{26}}{5} \left(-\frac{M_{(7),0}}{5,5} + \frac{25}{22} H \right) \cdot \cos \alpha_8 + H \cdot \frac{y_8}{h_8} \right)$$

$$\cos \alpha_8 = \frac{2}{\sqrt{5}}$$

$$y_{(8)} = 15 - 5 \cdot \frac{1}{8} - 15 \cdot \frac{1}{5} = 11,375$$

$$\tan \beta_8 = \frac{5}{10} = \frac{1}{2}$$

$$\tan \gamma_8 = \frac{y_{(8)} - y_7}{5} = \frac{11,375 - 25/4}{5} = \frac{41}{40}$$

$$h_8 = y_{(8)} - 5 + \frac{5}{8} = 7$$

$$\cos \gamma_8 = \frac{40}{\sqrt{3281}}$$

$$y_8 = y_{(8)} - h_8 = 11,375 - 7 = 4,375$$

$$D_8 = -\frac{\sqrt{3281}}{40} \left(-\frac{M_{(8),0}}{7} + \frac{5,5 \sqrt{26}}{5} \cdot \frac{8}{26} \cdot M_{(7),0} - \frac{25}{22} H + H \cdot \frac{4,375}{7} \right)$$

$$= -\frac{\sqrt{3281}}{40} \left(-\frac{1}{7} M_{(8),0} + \frac{2}{11} M_{(7),0} - \frac{45}{88} H \right)$$