$$U_{10} = \frac{M_{(9),0}}{h_9 \cdot \cos\beta_{10}}$$

$$\operatorname{tg}\beta_{10} = \frac{5}{5} = 1$$

$$h_9 = 10 + 5 \cdot \frac{5}{25} = 11$$

$$\cos\beta_{10} = \frac{\sqrt{2}}{2}$$

$$U_{10} = M_{(9),0} \cdot \frac{2}{\sqrt{2}} \cdot \frac{1}{11} = \frac{2}{11\sqrt{2}} M_{(9),0}$$

b) $U_9 = \dots$ $\quad \overleftarrow{\Sigma M_{(9)} = 0}$

$$M_{(9),0} - U_9 \cdot h_9 \cdot \cos\beta_9 - H \cdot y_{(9)} = 0$$

$$U_9 = \frac{1}{\cos\beta_9}\left(\frac{M_{(9),0}}{h_9} - H \cdot \frac{y_{(9)}}{h_9}\right)$$

$$U_9 = \frac{2}{\sqrt{2}}\left(\frac{M_{(9),0}}{11} - H\right)$$

$$U_9 = \frac{2}{11\sqrt{2}} M_{(9),0} - \frac{2}{\sqrt{2}} H$$

$$\operatorname{tg}\beta_9 = \frac{5}{5} = 1$$

$$\cos\beta_9 = \frac{\sqrt{2}}{2}$$

$$h_9 = 11$$

$$y_{(9)} = h_9 = 11$$

$$\sin\beta_{10} = \frac{\sqrt{2}}{2} \qquad \sin\beta_9 = \frac{\sqrt{2}}{2}$$

$$V_9 = -V_B' - \frac{2}{11\sqrt{2}} \cdot \frac{\sqrt{2}}{2} \cdot M_{(9),0} - \frac{2}{11\sqrt{2}} \frac{\sqrt{2}}{2} M_{(9),0} + \frac{2}{\sqrt{2}} \cdot \frac{\sqrt{2}}{2} H - H \cdot \frac{1}{8}$$

$$V_9 = -V_B' - \frac{2}{11} M_{(9),0} + \frac{7}{8} H$$