$$V_1 = -V_b - tg\,\beta_1 \frac{M_{1,0}}{h_1} - tg\,\alpha_2\left(\frac{M_{1,0}}{h_1} - H\frac{y_{(1)}}{h_1}\right)$$

$$V_1 = -V_b - \frac{M_{1,0}}{7} - \frac{1}{2}\left(\frac{M_{1,0}}{7} - H\right)$$

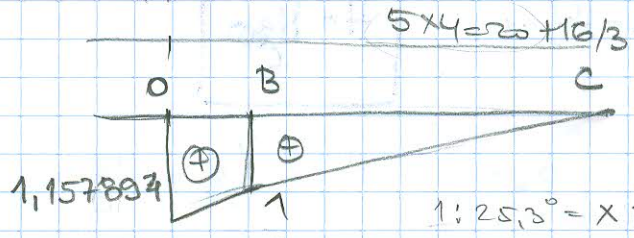
$$V_1 = -V_b - \frac{M_{1,0}}{7}\left(1+\frac{1}{2}\right) + \frac{1}{2}H = -V_b - \frac{3}{14}M_{1,0} + \frac{1}{2}H$$

$$V_{1,0}^{(B)} = -V_b^{(B)} - \frac{3}{14}\cdot M_{1,0} = -(1) - \frac{3}{14}\cdot \cancel{X_1}^{\,0} = -1 \qquad \frac{1}{2}H^{(B)} = \frac{5}{2} = 2{,}5$$

$$V_{1,0}^{(C)} = -\cancel{V_b^{(C)}}^{\,0} - \frac{3}{14}M_{1,0} = -\frac{3}{4}\cdot\left(20+\frac{16}{3}\right) = -19 \qquad \frac{1}{2}H^{(C)} = \frac{1}{2}\cdot\frac{4}{3} = \frac{4}{6} = \frac{2}{3} = 0{,}6^\circ$$

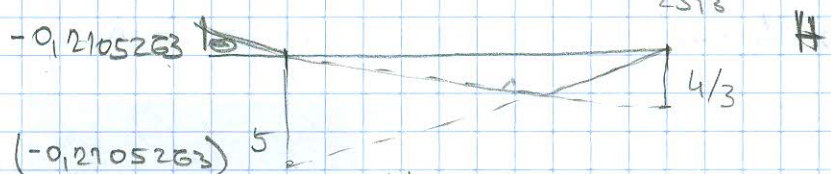
1,1578947

$5\times4 = 20 + 16/3 = 25{,}3^\circ$



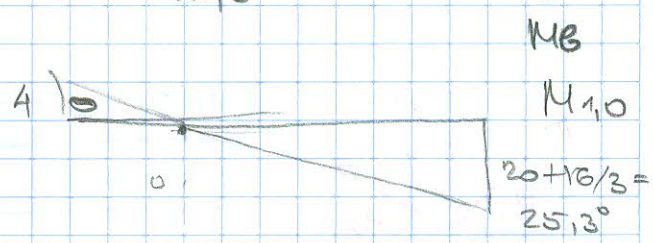

$1 : 25{,}3^\circ = x : 29{,}3^\circ$

$x = \frac{29{,}3^\circ}{25{,}3^\circ}$




$$V_{1,0}^{(0)} = -1{,}157894 - \frac{3}{14}\cdot(-4) + \frac{1}{2}(-0{,}2105263)$$
$$= -0{,}406014$$

$\frac{4/3}{25{,}3^\circ}\cdot 4 =$




$U_4 = \ldots$

$\curvearrowright \sum M_{(3)} = 0$

$$M_{3,0} - U_3\cdot h_3\cos\beta_4 - H\cdot y_{(3)} = 0$$

$$U_4 = \frac{1}{\cos\beta_4}\cdot\left(\frac{M_{3,0}}{h_3} - H\frac{y_{(3)}}{h_3}\right)$$

$$U_4 = \frac{\sqrt{65}}{8}\cdot\frac{M_{3,0}}{7} - \frac{\sqrt{65}}{8}\cdot\frac{7}{4{,}5}H$$

$$= \frac{\sqrt{65}}{56}M_{3,0} - \frac{\sqrt{65}\cdot 7}{36}H$$

$$U_4 = \frac{\sqrt{65}}{56}M_{3,0} - \frac{7\sqrt{65}}{36}H$$

$$U_4 = U_{4,0} + U_{4,H}\cdot H$$

$$tg\,\beta_4 = \frac{2}{16} = \frac{1}{8}$$

$$\cos\beta_4 = \frac{8}{\sqrt{65}}$$

$$h_3 = 5 - 5\cdot tg\,\beta_4 =$$

$$h_3 = 5 - 4\cdot\frac{1}{8} = 4{,}5$$

$$y_{(3)} = 7$$