

Desno oko tačke d₄

$$\sum M_{d_4} = 0$$

LEVA STRANA UTICAJNE LINIJE

$$B \cdot 12 + S_4 \cdot r_{34} + D_4 \cdot r_{d4} = 0$$

$$D_4 = \frac{-B \cdot 12 - S_4 \cdot r_{34}}{r_{d4}}$$

$$S_4 \cdot \cos 34 = H$$

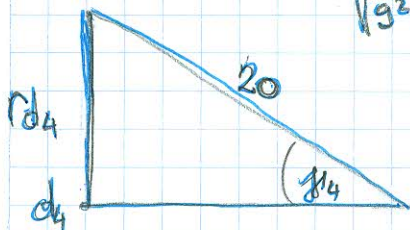
$$S_4 = \frac{H}{\cos 34}$$

$$\tan 34 = \frac{4}{8} = \frac{1}{2}$$

$$\cos 34 = \frac{2}{\sqrt{1+2^2}} = \frac{2}{\sqrt{5}}$$

$$\tan 34 = \frac{4.5}{4} = \frac{9}{8}$$

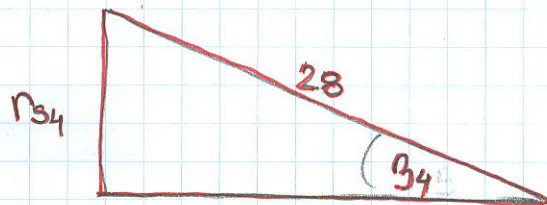
$$r_{d4} = \dots \sin 34 = \frac{9}{\sqrt{9^2+8^2}} = \frac{9}{\sqrt{145}}$$



$$\sin 34 = \frac{r_{d4}}{20}$$

$$r_{d4} = \frac{20 \cdot 9}{\sqrt{145}} = \frac{180}{\sqrt{145}}$$

$$r_{34} = \dots$$



$$\sin 34 = \frac{1}{\sqrt{5}}$$

$$\sin 34 = \frac{r_{34}}{28}$$

$$r_{34} = \frac{28 \cdot 1}{\sqrt{5}} = \frac{28}{\sqrt{5}}$$

$$D_4 = -\frac{1}{r_{d4}} \left(12B + H \cdot \frac{\sqrt{5}}{2} \cdot \frac{28}{\sqrt{5}} \right) = -\frac{\sqrt{145}}{180} (12B + 14H)$$

$$D_4 = -\frac{\sqrt{145}}{15} B - \frac{7\sqrt{145}}{90} H$$

$$M_g = M_{g,0} + H \cdot f = 0$$

$$H = -\frac{M_{g,0}}{f}$$

$$D_{4,0}^{(B)} = -\frac{\sqrt{145}}{15} B^{(B)} = -\frac{\sqrt{145}}{15} \cdot 1 = -\frac{\sqrt{145}}{15}$$

$$-\frac{7\sqrt{145}}{90} \cdot H^{(B)} = -\frac{7\sqrt{145}}{90} \cdot \left(-\frac{24}{5} \right) = \frac{28\sqrt{145}}{75}$$

$$H^{(A)} = H^{(B)} = -\frac{24}{5}$$

UTICAJNA LINIJA (X_A, X_B) RASTOJANJE

(DESNA STRANA DIJAGRAMA)

$$\frac{28\sqrt{145}}{75} - \frac{5\sqrt{145}}{15 \cdot 5} = \frac{23\sqrt{145}}{75}$$