

$$R_{1y} = - \frac{0,53 \cdot 4,15^3}{4} = - 9,47 \text{ Np/m}$$

$$R_{1y} = - \frac{0,68 \cdot 4,15^3}{4} = - 12,17 \text{ Np/m}$$

$$L_{2y} = - \frac{3,00^2}{4} (0,53 \cdot 3,00 + 1,03 \cdot 1,37) \\ = - 2,25 (1,59 + 1,41) = - 6,75 \text{ Np/m}$$

$$L_{2y} = - 2,25 (0,73 \cdot 3,00 + 2,20 \cdot 1,37) \\ = - 2,25 (2,19 + 3,02) = - 11,72 \text{ Np/m}$$

$$\pi_B \quad \overline{\quad \quad \quad} \quad \overline{\quad \quad \quad} \quad \overline{\quad \quad \quad}$$

$$14,30 \quad - 23,89 \quad - 18,92 \quad - 21,19$$

$$\pi_B = \quad - 1,67 \quad - 1,32 \quad - 1,48$$

$$A = \frac{0,68 \cdot 4,15}{2} - \frac{1,32}{4,15} = 1,41 - 0,32 = 1,09 \text{ Np/m}$$

$$B_L = 1,41 + 0,40 = 1,81 \text{ Np/m}$$

$$B_r = 0,73 \cdot 1,50 + \frac{2,20 \cdot 1,60}{3,00} + \frac{1,67}{3,00} \\ = 1,10 + 1,17 + 0,56 = 2,83 \text{ Np/m}$$

$$B = 1,81 + 2,83 = 4,64 \text{ Np/m}$$

$$C = 1,10 + \frac{2,20 \cdot 1,40}{3,00} = \frac{1,43}{3,00}$$

$$= 1,10 + 1,03 = 0,49 = 1,64 \text{ Np/m}$$

Feldmomenente:

$$\pi_A = \frac{1,09^2}{1,36} = 0,87 \text{ Np/m}$$

geprüft

$$B_r = 1,10 + 1,17 + 0,49 = 2,76 \text{ Np/m}$$

$$\frac{2,10}{2,10} \cdot \frac{x^2}{2} + 0,73 \cdot x = 2,76$$

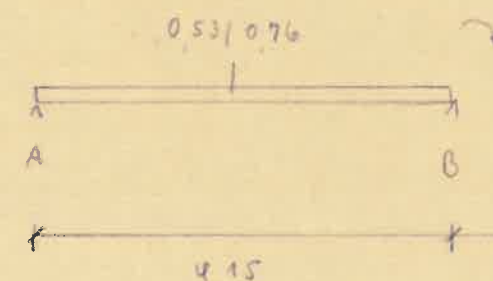
$$x^2 + 1,46x = 5,52$$

$$x = -0,73 \pm \sqrt{0,53 + 5,52} = -0,73 + 2,46 = 1,73 \text{ m}$$

$$\left[\frac{2,10}{2,10} \cdot \frac{1,73^2}{2} + 0,73 \cdot 1,73 = 1,50 + 1,26 = 2,76 \right. \\ \left. = B_r \right]$$

$$\pi_2 = 2,76 \cdot 1,73 = \frac{1,50 \cdot 1,73}{3} = \frac{1,26 \cdot 1,73}{2} = 1,48 \\ = 4,77 - 0,86 - 1,09 - 1,48 = 1,34 \text{ Np/m}$$

Durchlaufwirkung Pos. 17-16:



$$\pi_{B4} = \frac{0,76 \cdot 4,15^2}{8} = 1,64 \text{ Np/m}$$

$$\pi_{B3} = \frac{0,53 \cdot 4,15^2}{8} = 1,14 \text{ Np/m}$$

für π_F v. A:

$$\pi_B = 0,5 (1,64 + 0,49) = 1,07 \text{ Np/m}$$

$$A = \frac{0,76 \cdot 4,15}{2} - \frac{1,07}{4,15} = 1,58 - 0,26 = 1,32 \text{ Np/m}$$

$$\pi = \frac{1,32^2}{1,52} = 1,15 \text{ Np/m}$$

geprüft