

Lösungshinweise

1.2 $x_{N1,2} = 0$ $x_{N3,4} = \pm\sqrt{2}$

$P_{Min}(0;0)$ $P_{Max1}(1;2)$ $P_{Max2}(-1;2)$

$P_{W1,2}\left(\pm\frac{1}{3}\sqrt{3};\frac{10}{9}\right)$

1.4 $y = f(x) = 3,07x - 0,66$

1.5 $S(0;-1)$

1.6 $x_{1,2} \approx \pm 1,17$

1.7 $A \approx 2,72FE$

2. $X = \frac{1}{2} \begin{pmatrix} 26 & 35 \\ 47 & 86 \end{pmatrix}$

3. $a_1 \approx 19,85cm \Rightarrow h_1 \approx 1,23cm$

$A_1 \approx 406,23cm^2$

4.1 $A(0|0)$ $B(3,56|4,83)$ $C(0|3)$

4.2 $|\vec{F}_{BA}| = 18000N$ $|\vec{F}_{BC}| = 12000N$

4.3 $\vec{AB} = (3,56;4,83)m$ $\vec{CB} = (3,56;1,83)m$ $\vec{FG} = (0;-9000)N$

4.4 $\vec{M} = (0;0;31995)Nm$ $M = 31995Nm$

Lösungshinweise

1.2 $x_{N1,2} = 0$ $x_{N3,4} = \pm\sqrt{2}$

$P_{Min}(0;0)$

$P_{Max1}(1;2)$

$P_{Max2}(-1;2)$

$P_{W1,2}\left(\pm\frac{1}{3}\sqrt{3};\frac{10}{9}\right)$

1.4 $y = f(x) = 3,07x - 0,66$

1.5 $S(0;-1)$

1.6 $x_{1,2} \approx \pm 1,17$

1.7 $A \approx 2,72FE$

2. $X = \frac{1}{2} \begin{pmatrix} 26 & 35 \\ 47 & 86 \end{pmatrix}$

3.2 $x = 1$

3.3 $A \approx 3,68FE$

4.2 $\overline{x_W} = 3807,7g$

$s^2 = 203903,4$

$s = 451,6$

$[3356,1;4259,3]$

4.3 $h = 84,5\%$

Lösungshinweise

$$1.2 \quad x_{N1,2} = 0 \quad x_{N3,4} = \pm\sqrt{2}$$

$$P_{Min}(0;0)$$

$$P_{Max1}(1;2)$$

$$P_{Max2}(-1;2)$$

$$P_{W1,2}\left(\pm\frac{1}{3}\sqrt{3}; \frac{10}{9}\right)$$

$$1.4 \quad y = f(x) = 3,07x - 0,66$$

$$1.5 \quad S(0;-1)$$

$$1.6 \quad x_{1,2} \approx \pm 1,17$$

$$1.7 \quad A \approx 2,72FE$$

$$2. \quad X = \frac{1}{2} \begin{pmatrix} 26 & 35 \\ 47 & 86 \end{pmatrix} .$$

$$3.2 \quad x = 1$$

$$3.3 \quad A \approx 3,68FE$$

$$4.1 \quad R = 553,66EUR$$

$$4.2 \quad K_E = 57048,99EUR$$