Task 4

A building with a box shape

Now, for special case:

(a)
$$2\lambda_1 \times_1 + 4\lambda_1 \times_2 + 2\lambda_2 \times_1 \times_2 = 0$$
 $(\frac{3}{3} \times_1)$

(2)
$$\lambda_1 \times a_1 + \lambda_2 \times a_2 = 0 \qquad \left(\frac{2}{2} \times a_2\right)$$

(3)
$$X_A^2 X_Z - 32 = 0$$

Now. Let
$$x_1 = 0$$
. $2\lambda_1 \times_1 \times_2 = 0$, $\lambda_1 \times_1^2 = 0$, $\lambda_2 \times_2 = 0$. $\lambda_1^2 \times_2 = 0$. $\lambda_1^2 \times_2 = 0$. $\lambda_2^2 \times_2 = 0$.

However: \$ = 0 is not satisfied > 1=0 most.

News, by had:

$$2 \times_{A} + 4 \times_{2} + 2 \lambda_{2} \times_{A} \times_{2} = 0$$

$$\times_{A} + \lambda_{2} \times_{A}^{2} = 0 \quad (2'') \quad (2'') \quad (3'')$$

$$\times_{A}^{2} \times_{2} - 32 = 0 \quad (3'')$$

$$(3'') \Rightarrow \chi_2 = 32/\chi_1^2 \rightarrow (2'') \lambda_2 = -\frac{1}{\chi_1} \sqrt{\lambda_2} = \frac{1}{\chi_1} \sqrt{\lambda_2} = \frac{1}{\chi_1} \sqrt{\lambda_2} = \frac{1}{\chi_1} \sqrt{\lambda_2} \sqrt{\lambda_2} = \frac{1}{\chi_1} \sqrt{\lambda_2} \sqrt{\lambda_2} = \frac{1}{\chi_1} \sqrt{\lambda_2} \sqrt{\lambda_$$

Insertion 2×1+64/x=0 (=9 2×3=+64, nosof.

School method: - x2+4x, 32/x,2 -> min

$$x_2 = \frac{32}{x_1}$$
 $\Rightarrow 2x_1 + \frac{128}{x_1^2} = 0$ $64 = x_1^3 \Rightarrow x_1 = 9$
in $f(x_1 \times x_2)$ $x_2 = \frac{32}{4} = 8$. (1) tall building) D