Homework X

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1   Problem X.1

Put your answer to part a here. You can type maths inline like this $u = (u_1, \ldots, u_n) \in \mathbb{R}^n$. Or like this

$$\lambda_1 x_1 + \cdots + \lambda_n x_n = \sum_{i=1}^{n} \lambda_i x_i.$$

2   Problem X.2

If you need multiples lines:

$$\frac{1}{2}(a+b)^2 = \frac{1}{2}a^2 + ab + \frac{1}{2}b^2$$
$$\geq ab$$

You can also write matrices that way:

$$A = \begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix}$$