\[
V_x = 24 - h^2
\]

Dear sir,

I've attached the solution for the problem we discussed.

Best regards,

[Signature]

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Additional notes:

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where $A = \frac{P \cdot D \cdot P^T}{P^T \cdot D \cdot P}$.

$$A = \begin{pmatrix} 5/4 & -5/4 \\ -5/4 & 5/4 \end{pmatrix}$$

$$A^2 = \begin{pmatrix} 2/5 & -2/5 \\ -2/5 & 2/5 \end{pmatrix}$$

$$A^3 = \begin{pmatrix} 1/2 & -1/2 \\ -1/2 & 1/2 \end{pmatrix}$$

The characteristic polynomial of $A$ is:

$$\det(A - \lambda I) = \lambda^2 - \frac{5}{4}\lambda + \frac{1}{4}$$

The eigenvalues of $A$ are $\lambda_1 = \frac{1}{2}$ and $\lambda_2 = -\frac{1}{2}$.

The eigenvectors corresponding to $\lambda_1 = \frac{1}{2}$ are $v_1 = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$ and $v_2 = \begin{pmatrix} 1 \\ -1 \end{pmatrix}$.

The eigenvectors corresponding to $\lambda_2 = -\frac{1}{2}$ are $v_3 = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$ and $v_4 = \begin{pmatrix} 1 \\ -1 \end{pmatrix}$.

The matrix $A$ is diagonalizable with $P = \begin{pmatrix} 1 & 1 \\ 1 & -1 \end{pmatrix}$ and $D = \begin{pmatrix} \frac{1}{2} & 0 \\ 0 & -\frac{1}{2} \end{pmatrix}$.

The matrix $P^T$ is the inverse of $P$.

$$P^{-1} = \begin{pmatrix} 1 & -1 \\ 1 & 1 \end{pmatrix}$$

Thus, $A = P \cdot D \cdot P^T$.

For the given matrix $A$, the eigenvalues are $\lambda_1 = \frac{1}{2}$ and $\lambda_2 = -\frac{1}{2}$.

The corresponding eigenvectors are $v_1 = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$ and $v_2 = \begin{pmatrix} 1 \\ -1 \end{pmatrix}$.

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Det sidste ses også vundet af

\[
\begin{align*}
\text{adj} A & = (adj A)^T = (000) \\
& = (000) \\
& = (000)
\end{align*}
\]

Den adjungerede til A fundes via

\[
\text{adj} A = C^T = \begin{pmatrix} 0 & 0 & 1 \\ 1 & 0 & 1 \\ 0 & 1 & 0 \end{pmatrix}
\]
Der gives 0-10 points pr. spørgsmål. Der plan-derved point-længden opnåes, belægges mellem 0 og 160.

Mit: Points, kan følgerde
"oversættelse", betragtes som
vejledende.

135-150
110-135
90-110
70-90
50-70
0-50

150-160
135-150
110-135
90-110
70-90
50-70
0-50