Assignment 4

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1 Question 1

Firstly we know the approximated eigenvalue $\tilde{\lambda} = 0.9$. The eigenvector \tilde{x} where $\|x\|_2 = 1$ and $\|(A - \tilde{\lambda}I)\tilde{x}\|_2 \le 10^{-2}$. Then by the theorem about eigenvalue perturbation. $\|(A - \tilde{\lambda}I)\tilde{x}\|_2 \le 10^{-2}$ and $\|x\|_2 = 1 \implies \|\Delta A\|_2 \le 10^{-2}$ where ΔA is the **absolute backward error**. We also know

$$|\delta\lambda| \le \frac{\|x\| \|y\|}{|x^H y|} \|\Delta A\|$$

. Therefore, for this question, we know the absolute forward error is bounded above by

$$|\delta\lambda| \le \frac{\|y\|}{|x^H y|} 10^{-2}$$

where y is the left eigenvector.

Remark: We haven't been given enough information to determine the value of the conditional number, therefore, that is the best result we can get.

If we have a real symmetric matrix A, then the hermitian form of A is the same as A. Moreover, the left eigenvectors are identical to the right eigenvectors. Since x=y, then we have

$$|\delta\lambda| \le 10^{-2}$$

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2 Question 2

The SVD of A is given by $A = U\Sigma V^T$. Then H can be expressed as: $\begin{pmatrix} 0 & V\Sigma U^T \\ U\Sigma V^T & 0 \end{pmatrix}$

Using the hint in the question we know if σ is a singular value of A then $\pm \sigma$ are eigenvalues of H. If Σ is a n by n matrix containing eigenvalues of A. Then

$$\begin{pmatrix} \Sigma & \\ & -\Sigma \end{pmatrix}$$

is the eigenvalues of H. Then if we want to find the eigenvalue of H. We can simply solve the following equation: $(P_1 - P_2)$

where P_1 , P_2 , P_3 , P_4 are the eigenvectors of A.

By comparing the LHS and RHS of the equation. We obtain the following simultaneous equation:

$$\begin{cases} VU^T P_3 = P_1 \\ UV^T P_1 = P_3 \\ VU^T P_4 = -P_2 \\ UV^T P_2 = -P_4 \end{cases}$$

Therefore we get

$$\begin{pmatrix} P_1 & P_2 \\ P_3 & P_4 \end{pmatrix} = \begin{pmatrix} V & -V \\ U & U \end{pmatrix}$$

And its inverse is:

$$\begin{split} & (\begin{pmatrix} V & -V \\ U & U \end{pmatrix})^{-1} \\ & = \det(P) \begin{pmatrix} U^{-1} & V^{-1} \\ -U^{-1} & V^{-1} \end{pmatrix} \\ & = \frac{1}{2} \begin{pmatrix} U^T & V^T \\ -U^T & V^T \end{pmatrix} \end{split}$$

where we use the fact U,V are orthogonal vector

Therefore the eigendecomposition for H is:

$$H = \begin{pmatrix} V & -V \\ U & U \end{pmatrix} \begin{pmatrix} \Sigma \\ -\Sigma \end{pmatrix} \frac{1}{2} \begin{pmatrix} U^T & V^T \\ -U^T & V^T \end{pmatrix}$$
 (1)

3 Question 3

Here is a 4×4 A:

$$\begin{pmatrix}
2 & -1 & 0 & 0 \\
-1 & 2 & -1 & 0 \\
0 & -1 & 2 & -1 \\
0 & 0 & -1 & 2
\end{pmatrix}$$

Now we know all eigenvalues of A lie in the union of the Gershgorin disks. The union of Gershgorin disks of $A \in \mathbb{C}^{n \times n}$ is of the following:

$$S_i = \{ z \in \mathbb{C} : |z - 2| \le 1 \}$$
 $j = 1, n$
 $\cup S_j = \{ z \in \mathbb{C} : |z - 2| \le 2 \}$ $j = 2, \dots, n - 1$

Therefore, all the eigenvalues will be between $0 \le \lambda \le 4$. Now I would like to prove it cannot be 0. Suppose there exists a 0 eigenvalue. Then there must exists at least one non-zero eigenvector V which satisfy the following condition:

$$\begin{pmatrix} 2 & -1 & 0 & \cdots & 0 & 0 \\ -1 & 2 & -1 & \cdots & 0 & 0 \\ 0 & -1 & 2 & \cdots & 0 & 0 \\ \vdots & \vdots & \vdots & \ddots & \vdots & \vdots \\ 0 & 0 & 0 & \cdots & 2 & -1 \\ 0 & 0 & 0 & \cdots & -1 & 2 \end{pmatrix} V = 0$$

We can then formulate n simultaneous equation

$$\begin{cases} 2x_1 - x_2 = 0 \\ -x_1 + 2x_2 - x_3 = 0 \\ -x_2 + 2x_3 - x_4 = 0 \\ \vdots \\ -x_{n-1} + x_n = 0 \end{cases}$$

After solving the equation we find out the only solution to them is $x_1 = x_2 = \cdots = x_n = 0$. Therefore, 0 is not an eigenvector. \Longrightarrow All eigenvector must be strictly bigger than 0.

4 Question 4

4.1 Part 1

Firstly substitute y_k into the differential equation:

$$-\frac{\mathrm{d}^2 \pm \sin(k\pi x)}{\mathrm{d}x^2}$$

$$= -\frac{\mathrm{d} \pm k\pi \cos(k\pi x)}{\mathrm{d}x}$$

$$= -\mp k^2 \pi^2 \sin(k\pi x)$$

$$= \pm k^2 \pi^2 \sin(k\pi x)$$

$$= (k\pi)^2 y_k$$

4.2 Part 2

Here is eigenvalue and eigenvectors of the original matrix A:

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Here is all the eigenvalues: [0.0058684 0.02343915 0.05260915 0.09320722 0.1449951 0.20766889 0.28086079 0.36414128 0.45702164 0.55895681 0.6693486 0.78754918 0.9128649 1.04456036 1.18186273 1.32396624 1.470037 1.61921778 1.77063315 1.92339453 2.07660547 2.22936685 2.38078222 2.529963 2.67603376 2.81813727 2.95543964 3.0871351 3.21245082 3.3306514 3.44104319 3.54297836 3.63585872 3.71913921 3.79233111 3.8550049 3.90679278 3.94739085 3.97656085 3.9941316 ]
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Figure 1: eigenvalues

Here is all the eigenvectors: $[-0.0169069 \ 0.03371459 \ -0.05032442 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ -0.06663893 \ 0.08256238 \ 0.09800132 \ 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Here is 3rd, 6th and 10th eigenvectors of A scaled by the supremum norm:

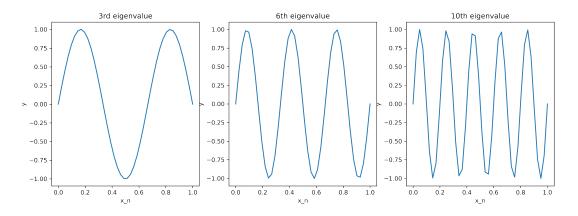


Figure 2: eigenvector of A

We can see the factor the eigenvectors of A coincide with the eigenfunction of the second order ODE we are solving in part A. However, as the eigenvalue getting bigger, the estimated eigenvector is slightly different to the eigenfunctions.

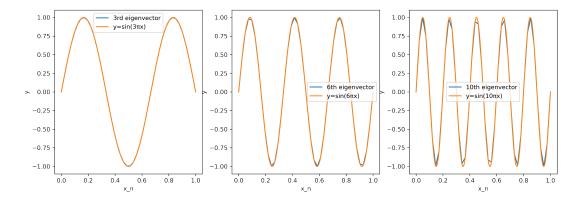


Figure 3: comparation between solution of ODE and A

We can see the error gets bigger as the eigenvalues getting bigger.

```
Here is the egienvalues of A [ 88.43598492 349.0913975 939.60640231]

Here is the eigenvalues of solving ODE [ 88.82643961 355.30575844 986.96044011]

Here is the percentage error of eigenvalues A to eigenvalues of solving ODEs repectively [0.43957034 1.7490178 4.79796716] %
```

Figure 4: eigenvalue error of 3rd,6th and 10th

Here is the percentage error of all eigenvalues:

```
Here is the egienvalues of A [ 9.86477642 39.40121525 88.43598492 156.68132991 243.73675939
    349.0913975 472.12698131 612.1214891 768.25337744 939.60640231
  1125.17499604 1323.87016833 1534.5258969 1755.90597016 1986.71124183
  2225.58725479 2471.13218961 2721.90509099 2976.43432381 3233.22620933
  3490.77379067\ 3747.56567619\ 4002.09490901\ 4252.86781039\ 4498.41274521
  4737.28875817 4968.09402984 5189.4741031 5400.12983167 5598.82500396
 5784.39359769 5955.74662256 6111.8785109 6251.87301869 6374.9086025
 6480.26324061 6567.31867009 6635.56401508 6684.59878475 6714.13522358]
Here is the eigenvalues of solving ODE [9.869604401089358, 39.47841760435743, 88.82643960980423, 157.91367041742973, 246.74011002723395, 355.3057584392169,
483.61061565337855,\ 631.6546816697189,\ 799.437956488238,\ 986.9604401089358,\ 1194.2221325318121,\ 1421.2230337568676,\ 1667.9631437841017,\ 1934.4424626135142,\ 1421.2230337568676,\ 1667.9631437841017,\ 1934.4424626135142,\ 1421.2231325318121,\ 1421.2230337568676,\ 1667.9631437841017,\ 1934.4424626135142,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231325318121,\ 1421.2231321121,\ 1421.2231321121,\ 1421.2231321121,\ 1421.2231321121,\ 1421.2231321121,\ 1421.2231321121,\ 1421.2231321121,\ 1421.2231321121,\ 1421.2231321121,\ 1421.2231321121,\ 1421.2231321121,\ 1421.2231321121,\ 1421.2231321121,\ 1421.2231321121,\ 1421.2231321121,\ 1421.2231321121,\ 1421.2231321121,\ 1421.22313211211,\ 1421.2231321121,\ 1421.2231321121,\ 1421.2231321121,\ 1421.22311
2220.660990245105, 2526.6187266788756, 2852.3156719148246, 3197.751825952952, 3562.9271887932578, 3947.8417604357433, 4352.495540880407, 4776.8885301272485,
5221.02072817627,\ 5684.89213502747,\ 6168.502750680849,\ 6671.852575136407,\ 7194.941608394141,\ 7737.769850454057,\ 8300.33730131615,\ 8882.64396098042,
9484.689829446872, 10106.474906715503, 10747.999192786312, 11409.262687659299, 12090.265391334462, 12791.007303811808, 13511.488425091331,
14251.708755173031, 15011.668294056912, 15791.367041742973]
Here is the percentage error of eigenvalues A to eigenvalues of solving ODEs repectively [4.89176732e-02 1.95555847e-01 4.39570345e-01 7.80388742e-01
 1.21721216e+00 1.74901780e+00 2.37456209e+00 3.09238467e+00
 3.90081291e+00 4.79796716e+00 5.78176661e+00 6.84993580e+00
 8.00001171e+00 9.22935140e+00 1.05351402e+01 1.19144004e+01
  1.33640006e+01 1.48806649e+01 1.64609837e+01 1.81014234e+01
  1.97983373e+01 2.15479773e+01 2.33465041e+01 2.51899999e+01
  2.70744794e+01 2.89959017e+01 3.09501828e+01 3.29332068e+01
  3.49408387e+01 3.69689360e+01 3.90133605e+01 4.10699905e+01
  4.31347323e+01 4.52035316e+01 4.72723849e+01 4.93373502e+01
  5.13945580e+01 5.34402216e+01 5.54706469e+01 5.74822420e+01] %
```

Figure 5: eigenvalue error