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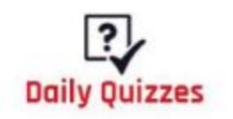
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MOST EXPECTED QUESTIONS



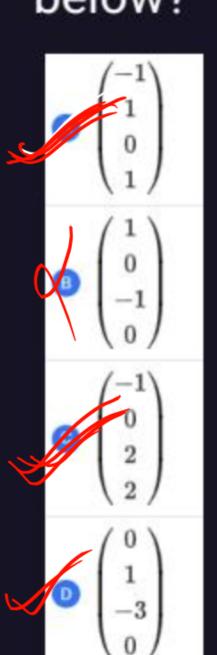
PART-1



**Anant sir** 



tich of the following is/are the eigen vector(s) for the matrix given below?



$$A = \begin{pmatrix} -9 & -6 & -2 & -4 \\ -8 & -6 & -3 & -1 \\ 20 & 15 & 8 & 5 \\ 32 & 21 & 7 & 12 \end{pmatrix}$$

$$\begin{cases} 32 & 21 & 7 & 12 \\ 4xy & 8-6-1=1 \end{cases}$$

$$\begin{cases} 6x & A = (A-A^T)x = 0 \\ Ax = Ax \\ -9 & -6 & -2 - 4 \\ -8 & -6 & -3 - 1 \\ 20 & 15 & 8 & 5 \\ 32 & 21 & 7 & 12 \end{cases} = \begin{cases} -1 \\ 0 \\ -1 \\ 0 \\ -7 = A \end{cases}$$

$$\begin{cases} -3 & -1 \\ 20 & 15 & 8 & 5 \\ -1 & -1 \\ 0 \\ -7 = A \end{cases}$$

$$\begin{bmatrix}
-9 & -6 & -2 & -47 \\
-8 & -6 & -3 & -1 \\
20 & 15 & 8 & 5 \\
32 & 21 & 7 & 12
\end{bmatrix}$$

$$9-4-8=-1$$
  
 $8-6-2=0$   
 $-20+16+10=6$   
 $-32+14+24=6$ 

$$\begin{bmatrix}
-9 - 6 - 2 - 4 \\
-8 - 6 - 3 - 1 \\
2015 8 5
\end{bmatrix}$$

$$32 21 7 12 1 0$$

$$-6 + 6 = 2(0)$$

$$-6 + 9 = 1 = 1 = 1$$

$$15 - 24 = -9$$

$$21 - 21$$



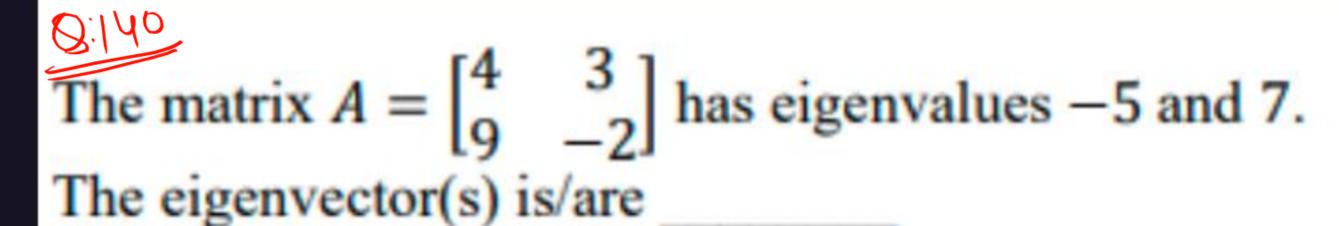
$$= -xyz + xzy + xyz$$
  
 $|A| = 0$ 

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 $\begin{bmatrix} 2 \\ 8 \end{bmatrix}$ 

(D)





(B)  $\begin{bmatrix} 1 \\ -6 \end{bmatrix}$   $\begin{bmatrix} 9 & 3 \end{bmatrix} \begin{bmatrix} 71 \\ -3 \end{bmatrix} = 0$   $\begin{bmatrix} 9 & -9 \end{bmatrix} \begin{bmatrix} 3 \\ -3 \end{bmatrix} \begin{bmatrix} 37 \\ -3$ 



If the trace of the matrix 
$$\begin{pmatrix}
1 & a_{12} & \cdots & a_{1n} \\
a_{21} & 2 & \cdots & a_{2n} \\
\vdots & \vdots & \vdots & \vdots \\
a_{n1} & a_{n2} & \cdots & n
\end{pmatrix}$$
is 55

then the value of n is



Trace = 1+2+3+4+ - - + 
$$\eta$$
 = 55  
 $\frac{\eta(\eta+1)}{2}$  = 55  $\Rightarrow \eta(\eta+1)$  = 110  
 $\frac{\eta(\eta+1)}{2}$  = 70  $\Rightarrow \eta(\eta+1)$  = 0



Consider the following statements about two square matrices A and B of the same order:

P: 
$$(A + B)^2 = A^2 + 2AB + B^2$$

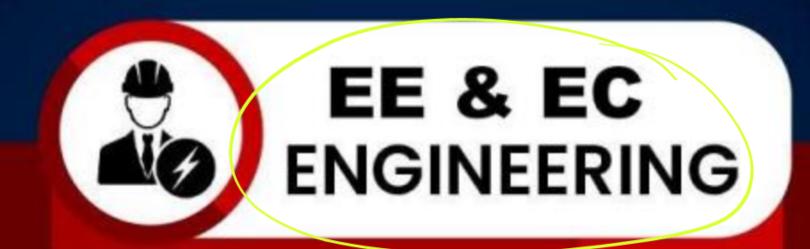
Q: 
$$(A+B)(A-B)=A^2-B^2$$

Then,

- (A) both P and Q are true.
- (B) both P and Q are false
- (C) both P and Q are true if A and B commute
- (D) P is true but Q is false.

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<b>EXAM TARGET</b>	SUBJECT	TIME	FACULTY
ALL PSUs GATE 2024-25	ENGINEERING MATHS NETWORK THEORY	10:00 AM 6:00 PM	ANANT SIR RAVI SIR
	ELECTRICAL MACHINE	7:30 PM	SANTAN SIR
<b>GATE 2024-25</b>	COMMUNICATION	9:00 PM	RENU SIR

# OU TUDE Classes Schedule (2)







<b>EXAM TARGET</b>	SUBJECT	TIME	FACULTY
ALL PSUs	ENGINEERING MATHS	10:00 AM	ANANT SIR
ALL PSUs	GEOTECHNICAL	1:00 PM	RUDRA SIR
<b>GATE 2024-25</b>	STEEL STRUCTURE	6.00 PM	REHAN SIR
<b>GATE 2024-25</b>	ENVIRONMENT	8:00 PM	PRATIK SIR
<b>GATE 2024-25</b>	SOM	9:00 PM	MUKESH SIR

# OU TUDE Classes Schedule (2)







<b>EXAM TARGET</b>	SUBJECT	TIME	FACULTY
ALL PSUs	ENGINEERING MATHS	10:00 AM	ANANT SIR
ALL PSUs	PRODUCTION	11:30 PM	GAURAV SIR
ALL PSUs	THERMODYNAMICS	3:00 PM	KANISTH SIR
<b>GATE 2024-25</b>	HMT	4:30 PM	YOGESH SIR
<b>GATE 2024-25</b>	SOM	9:00 PM	MUKESH SIR



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THERMODYNAMICS	THURSDAY Live @11AM	KANISTH SIR
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