







Problems True or Jalse { explain 1 the ALB are similar matrices, then 2A^2+A-3I l+2B^3+B-3I we similar. 6 If ALB are 3x3 matrices with eigenvalues 1,0-1 then ALB are similar. 6 The matrices J= (-1 1 0) f J (0-1 p) are similar. Solutions 6
$2A^{2}+A-3I & 2B^{3}+B-3I$ whe similar: (b) If A & B wie 3x3 matrices with eigenvalues 1,0,-1 then A & B wie similar. (c) The matrices $J = \begin{pmatrix} -1 & 1 & 0 \\ 0 & -1 & 1 \end{pmatrix} + J \begin{pmatrix} 0 & -1 & 0 \\ 0 & 0 & -1 \end{pmatrix}$ where similar Solutions 6
$2A^{2}+A-3I & 2B^{3}+B-3I$ ore gimilar. $6) If A L B \text{ ore } 3x3 \text{ matrices with eigen values}$ $1,0,-1 \text{ then } A L B \text{ ore gimilar.}$ $6) The matrices J = \begin{pmatrix} -1 & 1 & 0 \\ 0 & -1 & 1 \end{pmatrix} f J \begin{pmatrix} -1 & 1 & 0 \\ 0 & -1 & 1 \end{pmatrix} \text{ore similar} Solutions 6$
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a) True! Note: matrix with distinct eigen
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M(2A2, A-37)M-1 / Nature
= 2 (MAM-I MAM-I MAM)
+ MAM-1-3MIM-1 B=TN5-
$=28^{3}+8-37$ (TS-1) A (TS-1) = B
- 46-54
© False6
JI+I = (0 1 JI+I i81D) JI+I = (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
e-value -1.
$J_{2}+I=0$
J2+I = (0) because 2 e-vector with e-value (1)
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