AUGUST 04) Find Eigen values and Eigenvectu. Chara ctershi poly 12-61-16=0 (1-8) (1-12) 1=8 and 1=0 Eigen values (-1,3 Chara cleristic poly. $\lambda^{2} - 6\lambda + 5 = 0$ $(\lambda - 5)(\lambda - 1) = 0$

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44 7 14 21 28

1 8 15 22 29

Wey 2 9 16 23 30

1 3 10 17 24 31

1 4 11 18 25

2 12 19 26

Notes

characterstic polynomial $\lambda^2 = 0$ $\lambda = -1, \lambda_2 = 1$ Eigenvaluy $\lambda = (1 - \sqrt{2}, 1)$ Figure $\lambda = (1 + \sqrt{2}, 1)$ Figure

Vectors

2017 SEPTEMBER

Mon | 4 | 11 | 18 | 25 |

Line | 5 | 12 | 17 | 26 |

Very! | 6 | 13 | 20 | 27 |

Thu | 7 | 14 | 21 | 28 |

1 | 1 | 8 | 15 | 22 | 29 |

Sait | 2 | 9 | 16 | 23 | 30 |

Sun | 3 | 10 | 17 | 24 |