

98 $\text{Ch}(A) = A^2 - A - I = 0$

$$A - I - A^{-1} = 0$$

$$-A^{-1} = I - A \quad \text{option (D)}$$

99

$n \times n$ has distinct eigenvalues

$\Rightarrow$ diagonalizable option (A)

100

$$a(1, 2) + b(2, 3) + c(0, 0) = (0, 0)$$

$$a + 2b = 0 \quad | \quad 2a + 3b = 0$$

$$a = 0$$

$$c \in \mathbb{R}$$

$$\Rightarrow \underline{1, 0}$$

$$\begin{aligned} 2a + 3b &= 0 \\ 2a + 4b &= 0 \end{aligned}$$

$$\begin{aligned} -b &= 0 \\ b &= 0 \end{aligned}$$

option (B)