



+

AB = AC

 $\Rightarrow B = C$



JEE MAIN 2016

$$A \ adj \ (A) = AA^T$$

$$adj(A) = A^T$$

$$\Rightarrow \begin{bmatrix} 2 & b \\ -3 & 5a \end{bmatrix} = \begin{bmatrix} 5a & 3 \\ -b & 2 \end{bmatrix}$$

$$5a = 2$$
; $b = 3$

$$\Rightarrow 5a + b = 5$$