$$E_2\left(\tfrac{7}{9}\right) = E_3\left(\tfrac{1}{6}\right) = \tfrac{16}{9}\begin{bmatrix} 0 \\ 1 \end{bmatrix}$$

$$E_2'\left(\tfrac{7}{9}\right) \times E_3'\left(\tfrac{1}{6}\right) = 96 > 0$$