

$$\{ \ a_{11}^2 + a_{21}a_{22} = 0, a_{11}a_{12} + a_{22}^2 = 0, a_{12}a_{22}(a_{11}a_{22} - a_{12}a_{21}) = 0, a_{11}a_{21}(a_{11}a_{22} - a_{12}a_{22}) = 0, (a_{11}a_{22} - a_{12}a_{21})(a_{11}a_{22}$$