Det(A) = 3(-21+25) - 5(-15+25) + (-6)(25-35)

= 3(4) - 5(10) - 5(-10)

= 12

det(
$$\frac{3}{2}, \frac{3}{2}, \frac{3}{2}, \frac{3}{2}$$
) = 0.

= (3-A)($\frac{3}{2}, \frac{3}{2}, \frac{3}{2}, \frac{3}{2}$) = 0.

= (3-A)($\frac{3}{2}, \frac{3}{2}, \frac{3}{2}, \frac{3}{2}$) = 0.

= (3-A)($\frac{3}{2}, \frac{3}{2}, \frac{3}{2}, \frac{3}{2}$) = 0.

= 3 $\frac{3}{2}$ + 12 $\frac{3}{2}$ + 12 $\frac{3}{2}$ + 12 - $\frac{3}{2}$ + 12

A squared value will always be ≥ 0 if they are E IR.