$$R_{ac}R_{bc} = \left(-\delta_{ac} + 2n_a n_c\right)\left(-\delta_{bc} + 2n_b n_c\right)$$

$$= \delta_{ac}\delta_{cb} - 2\delta_{ac}n_c n_b - 2\delta_{bc}n_c n_a + 4n_a n_b n_c^2$$

$$= \delta_{ab} - 2n_a n_b - 2n_b n_a + 4n_a n_b \underbrace{n_c n_c}$$

repeated index: scalar product

$\underline{n}$ is a unit vector

$n_c n_c = |\underline{n}|^2 = 1$

$$= \delta_{ab} - 4n_a n_b + 4n_a n_b$$

$$= \delta_{ab}$$