作业 19

CarBO

1 证明公式
$$q_i^T R q_i' = tr(R q_i' q_i^T)$$

证明:因为 $q_i^T R q_i'$ 为标量,因此

$$q_i^T R q_i' = tr(q_i^T R q_i')$$

又因为
$$tr(AB) = tr(BA)$$

有

$$q_i^T R q_i' = tr(q_i^T R q_i') = tr(R q_i' q_i^T)$$