

*G.G.57 Justify geometric relationships (perpendicularity, parallelism, congruence) using transformational techniques (translations, rotations, reflections)*

In the accompanying diagram figure  $\triangle RQ'R'$  is the image of  $\triangle PQR$  under a translation through vector  $\overrightarrow{PR}$ . Prove that  $\overline{Q'R'}$  is parallel to  $\overline{QR}$ .

