



Example 124 : As shown in Figure 3, $AB = AC$, $CP = CQ$, prove that $\angle SRP = 3 \angle RPC$.

$$\frac{\frac{Q-P}{A-B}}{\left(\frac{A-C}{P-Q}\right)^3} = \frac{\frac{C-B}{C-A}}{\frac{B-A}{B-C}} \left(\frac{\frac{Q-P}{B-C}}{\frac{A-C}{P-Q}} \right)^2,$$