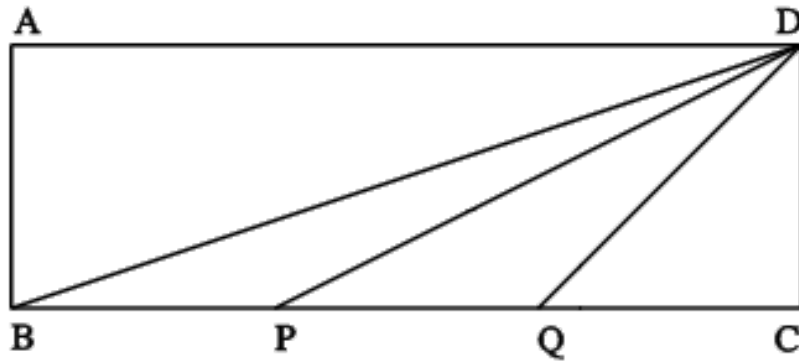


$ABCD$ is a rectangle where $BC = 3AB$.
 P and Q are points on BC such that $BP = PQ = QC$.



Show that: angle DBC + angle DPC = angle DQC

Generalise this result.