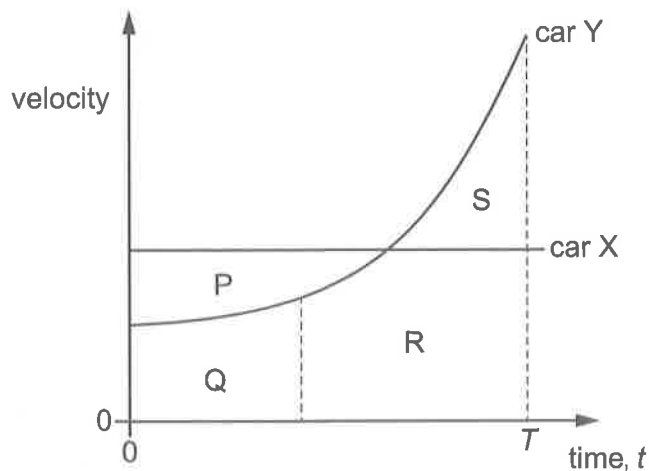4   The velocity–time graph shows car X travelling with a constant velocity and car Y travelling with increasing acceleration. Car X overtakes car Y at time $t = 0$.

Four areas P, Q, R and S are labelled on the graph.

Car Y overtakes car X at time $t = T$.

Which relationship must be correct?

A $P = S$ B $R = S$ C $P + Q = R$ D $Q + R = P + S$