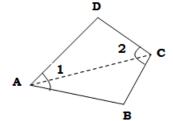
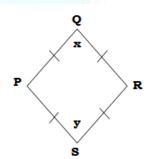
Triangle and its Properties: Worksheet -8

1. In the adjoining Quadrilateral ABCD, AD is the greatest side and BC is the smallest side. Show that



 $\angle 1 < \angle 2$. (Hint: Join AC)

2.In the adjoining Quadrilateral PQRS, PQ = QR, PS = RS and Ps > PQ. Show that $\angle x > \angle y$. (Join QS)



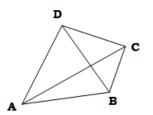
3. In a Quadrilateral ABCD, AC and BD are diagonals.

Prove the following:





(iii)
$$AB + BC + CD + DA > AC + BD$$



Third Apple

