**Guided Solution for Tutorial 7**

**Question 5**

1. Find Q of the motor, Q = Ssin

cos-1(pf)

2. Find P of the motor, P=Scos

3. The reactive power after correct = Q - Qc

4. After pf correction there is no change in P.

5. Tangent of the new angle, Q – QC) /P

6. The pf after correction = cos

 The pf is lagging since QC is less than Q