Examples of Induction Proofs:

1. 1+2+3+…+n =
2. 1 + 3 + 5 + 7+ … +2n-1 = a perfect square
3. For all n > 0,
4. For all n , 2+22+23+…+2n = 2n+1 – 2
5. For n , 1x2 + 2x3 + 3x4 + … + n(n+1) =
6. For all n ,