Assignment Problems for EXCEL Functions

1. A={3,7,2,9,6,5,4,8,1,0,12,21,24,25,16,19,29}
   B={6,4,14,2,24,11,7,8,9,39,1,10,13,17,21,3,5}
   C={8,13,33,9,6,12,23,54,37,15,22,20,17,26,18,27,5}
   D={1,0.5,0.12,0.99,0.67}

   Math Function:
   a) E=A+B+C
   b) F=A-B+C
   c) G=Sum of all elements in i)A ii)B iii)C
   d) H=A*B/C
   e) I=A^4+B^3+C^-2
   f) Assume A as radius of a circles and find the area of circles
   g) Find Z= (B!)^2 + (A!)$^{-2}$
   h) Represent the complex value as A+ iB
   i) If K=A_n+B_nj , L=A_{n+1}+jB_{n+1} find M=K+L,   N=K/L and O=K*L
   j) If A&C is in Celsius convert as P=A(Kelvin) Q =C(Fahrenheit)
   k) If B is in feet convert R=B(square meters)
   l) X=[11 1 -7 ; 5 9 4; 3 6 8]   Y=[21 33 12; 17 19 16; 18 11 13]
      Find   Det {X,Y,(X.Y)},   (X^{-1},Y^{-1},X^T,Y^T,$(X+Y)^{-1}$,$(X.Y)^{-1}$)
      Find X*Y and Compare with X.Y

2. **Trigonometric Function:**
   i) S=Cos(A),   T=exp(-5B),   U=(S^2)*T
   ii) V=$\tan^{-1}$(A), $\tan^{-1}$(B),$\tan^{-1}$(C),$\tan^{-1}$(D)
   iii) W=A$\cos^{-1}$(D)+B*ln (A) [assume both values in either Radians or Degree]
   Plot (A,S) , (B,T), (S,T), U

3. **Statistical Function:**
   Find Statistical parameters for A,B,C (Variance, Median, Standard Deviation)

4. **Plot Graph**
   Line, Bar, Column, Scatter : set (A,B) ,(B,C), (A,C) and (A,B,C)