

SET 3: Pure Mathematics

Tutorial 8

1. Write the following formulas in MS Excel format:

(i) $C = \frac{5}{9}(F - 32)$ where the value of F is stored in cell **D6**. [**Ans.** = 5/9*(D6-32)]

(ii) $F = P \left(1 + \frac{i}{n}\right)^{nt}$ if the values of P , i , n and t are stored in the cells **A1**, **A2**, **A3** and **A4** respectively. [**Ans.** = A1*(1+A2/A3)^(A3*A4)]

(iii) $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ where the values of x_1 , x_2 , y_1 and y_2 are stored in the cells **C1**, **C2**, **C3** and **C4** respectively. [**Ans.** = SQRT((C2-C1)^2+(C4-C3)^2)]

(iv) $a = \sqrt{b^2 + c^2 - 2bc \cdot \cos A}$ if the values of b , c and A are stored in the cells **B1**, **C1** and **A1** respectively, and the value of angle A is entered in degrees. [**Ans.** = SQRT(B1^2+C1^2-2*B1*C1*COS(A1*PI()/180))]