SUB - MATHEMATICS
WORKSHEET-4
Real Numbers

1) Prove that product of three consequtive positive integers is divisible by 6.

2) Prove that (n^2-n) is divisible by 2 for every positive integer n.

3) Find the LCM and HCF of the followings integers by applying the prime factorisation method of 84, 90 and 120.

4) Use Euclids division algorithm to find HCF of 135 and 225.

5) Define HCF of two positive integers and find the HCF of the following pairs of numbers:

   a) 18 and 24

   b) 70 and 30

6) Find the largest number which divides 615 and 963 leaving remainder 6 in each case.

7) Find the LCM and HCF of 36 and 126 and verify LCM X HCF = product of two integers.

8) Show that $5-2\sqrt{3}$ is an irrational Number

—