5 Lab 5 – March 17, 2022

- 5.1 Using the Euclid's Algorithm find the greatest common divisor of 346 and 36.
- 5.2 Find all the solutions of the following Diophantic equation

$$319\,x + 473\,y = 0.$$

5.3 Find all the pairs of integers x and y for which

$$6x + 9y = 204.$$

5.4 Find all the pairs of integers x and y for which

$$10 x - 15 y = 131.$$

5.5 Find all the pairs of integers x and y for which

$$167 x + 32 y = 1.$$

5.6 Find all the solutions of the following Diophantic equation

$$712x + 36y = 2.$$

5.7 Find all the pairs of integers x and y for which

$$654\,x + 234\,y = 12.$$

5.8 Find all the pairs of integers x and y for which

 $512\,x + 355\,y = 6.$

5.9 Find all the pairs of integers x and y for which

$$819\,x + 315\,y = 126.$$