Homework6----Euclidian Algorithm

Jun Rao

Use EA to find

gcd(5040,2100)

5040 = 2100 2 + 840

2100 = 840 ×2 + **420**

840 = 420 × 2 +0

Hence, gcd(5040,2100) = 420

gcd(2366,1456)

2366 = 1456 × 1 + 910

1456 = 910 ×1 + 546

910 = 546 1 + 364

546 = 364 × 1 + **182**

364 = 182 × 2+ 0

Hence, gcd(2366,1456) = 182

gcd(11319,7623)

11319 = 7623 × 1 + 3696

7623 = 3696 × 2 + **231**

3696 = 231 × 16 + 0

Hence, gcd(11319,7623) = 231