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## REAL NUMBERS SOLUTION 20

Find the greatest number which divides 2011 and 2623 leaving remainders 9 and 5 respectively.

Solution:

2011 - 9 = 2002

2623 - 5 = 2618

The greatest number is the HCF of 2002 and 2618

By Euclid's division algorithm

 $2618 = 2002 \times 1 + 616$ 

 $2002 = 616 \times 3 + 154$ 

 $616 = 154 \times 4 + 0$ 

HCF = 154

Required number = 154