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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
$2618=2002 \times 1+616$
$2002=616 \times 3+154$
$616=154 \times 4+0$
$\mathrm{HCF}=154$
Required number $=154$

