4.3.3.9 Example 7

Q: $p = 23$ $g = 5$

       $a = 6$ $b = 15$ $y = g^x \bmod p$

Solution

$5^6 \bmod 23 = 8$ $5^{15} \bmod 23 = 19$

$19^6 \bmod 23 = 2$ $8^{15} \bmod 23 = 2$