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世 How to find Modulo and Muthplicative Inverse? 1--17 mod 23?

2. Multiplicative Inverse of -13 upon modulo 23?

Solution:

1. -17 mod 23?

Step: 1 Understand the operation

Modulo gives the reminder after division.

If we write: -17 = a mod 23

we want to find a number α such that: $-17 \equiv \alpha \mod 23 \text{ and } 0 \leq \alpha \leq 23$

Step: 2 Add 23 until you get a positive result

-17+23 = 6

:. - 17 mod 23 = 6 (Ans:)

2. Multiplicative Inverse of -13 upon modulo 23?

Ams:

$$-13 \mod 23 = 10$$

find a such that 10 a = 1 mod 3

Extended Eudlidean Algorithm:

Back substitution:

$$10^{-1} \mod 23 = 7$$

Therefore, multiplicative inverse of -13 upon modulo