* $-17 \bmod 23$?

Heres how to do it:

$-17 \bmod 23 = 23 - (17 \bmod 23) = 23 - 17 = 6$

Answer $= -17 \bmod 23 = 6$

* multiplicative Inverse of -13 upon modulo 23?

To fine the multiplicative inverse of -13 modulo 23, we want to find an integer x such that:

$(-13) \cdot x \equiv 1 \bmod 23$

step: 1 convert -13 mode 23 to a positive equivalent

$-13 \bmod 23 = 10$ (since $23 - 13 = 10$)

$10 \cdot x \equiv 1 \bmod 23$

step 2: Find the inverse of 10 modulo

- $10 \cdot 1 = 10$
- $10 \cdot 2 = 20$
- $10 \cdot 7 = 70 \equiv 1 \bmod 23$

The multiplicative inverse of -13 modulo 26 is 7.