

Week 11-12 Assignment

- ① Calculate:

$$(+x \mid 0 < x < 4 : (+y \mid 0 < y < 4 : x * y))$$

Suggestion: simplify $(+y \mid 0 < y < 4 : x * y)$

- ② Find integers x and y such that:

$$938 * x + 242 * y = \gcd(938, 242)$$

- ③ Find the inverse of $23 \bmod 31$ i.e. find $0 < x < 31$ such that $23 *_{31} x = 1$.