$$a = 59$$
 $n = 7$

$$r = 59 - (8)(7)$$

$$r = 59 - 56 = 3$$

$$q = 84$$
 $n = 12$

$$6 < \frac{84}{12} < 8$$

$$a = -96$$
 $n = 12$

138 = 2 . 61 + 16 138 y 61 61 = 3 - 16 + 13 13 = 4.3 + 1 < MCD MCD(138,61) = 1 = 3 - 1 + 0 231 9 49 231 = 4 0 49 + 35 49 = 1 . 35 + 14 35 = 2 = 14 + 7 < MCD MCD (231, 49) = 7 14 = 2,7 10

```
I dentiolad de Bézout
93 4 42
               93 = 2.42 +9
               42= 4.9 +6
               9=1.6+3
               6 = 2 · 3
          3= 9-1-6
          3= 9-1(42-4.9)
          3=9-5-42
          3=(93-2.42)5 - 42
          3 = 93.5 - 11(42)
          3= 465 - 462
70 y 29
             70= 2.29 +12
              29 = 2 · 12 + 5
               12 = 2 - 5 + 2
               5 = 2 · 2 + 1
1=5-2-2
1= 5-2(12-2.5)
1= 5.5 - 2.12
1= 5(29-2-12) - 2-12
1= 5(29) -, 12(12)
1= 5 (29) - 12 (70 - 2.29)
7 = 29 - 29 - 12 - 70 = 841 - 840
```

Philomak

$$-112 y -91 -112 = 1 -91 + 21$$

$$91 = 4 \cdot 21 + 7$$

$$21 = 3 \cdot 7$$

$$7=91+4.021$$
 $7=91-4(112-91)$
 $7=5.91-4(112)$
 $7=-5(-91)+(4)(-112)$

$$105 = 2 \cdot 39 + 27$$

 $39 = 1 \cdot 27 + 12$
 $27 = 2 \cdot 12 + 3$

$$3 = 27 - 2 \cdot 12$$

 $3 = 27 - 2(39 - 27)$
 $3 = 3 \cdot 27 - 2 \cdot 39$
 $3 = 3 \cdot (105 - 2 \cdot 39) - 2 \cdot 39$
 $3 = 3 \cdot 105 - 8(39)$
 $3 = 3 \cdot (-105) + (-9)(39)$
 $3 = 315 + 312$

Aritmetica modular

7+3 mod 6 -> 10 = 4 mod 6

1+3

7-3 mod 6 -> 7-3 = 4 mod 6

1+3

23-24 mod 6 -> -1 = 5 mod 6

5-0

62+68 mod 6 -> 62+68 = 4 mod 6 2+2 mod 6

 $601-6001 \mod 6$ $601-6001 = 0 \mod 6$ $1-6000+1 \mod 6 \rightarrow$ $5\cdot 0-5 \mod 6$

 $-3-19 \mod 6$ $3-1 \mod 6$ $-3-19=2 \mod 6$

6+4 mod 10 -> 10 = 0 mod 10

-21-17 mod 10 -> -21-17=-1+3 mod 10

14-7 mod 10 -> 14-7=7 mod 10

101+11+1 mod 10 ____ 101+11+1=3 mod 10

13-15 mod 10 -> 13-15 = 8 mod 10

101-11-1 mod 10 -> 101-11-1 = 91 mod 10