Trabajo en Close Pavid Gabriel Corzo Memath

1 mid (231, 1820)

$$1820 = 7 \cdot 231 + 203$$

$$mcd(2597, 1369)_{100}$$

 $2597 = 1.1369 + 1228$

$$3 = 1 \cdot 2 + 1$$

$$1 = 1 \cdot 1 + 0$$

c)
$$mcd(4001, 2689)$$

 $4001 = 1 \cdot 2689 + 1312$
 $mcd(2689, 1312)$
 $2689 = 2 \cdot 1312 + 65$
 $mcd(1312, 65)$
 $1312 = 20 \cdot 65 + 12$
 $mcd(65, 12)$
 $65 = 6 \cdot 12 + 5$
 $mcd(12, 6)$
 $12 = 2 \cdot 5 + 2$
 $mcd(5, 2)$
 $5 = 2 \cdot 2 + 1$
 $mcd(2, 1)$
 $2 = 1 \cdot 1 + 1$
 $mcd(1, 1)$
 $1 = 1 \cdot 1 + 0$
 $mcd(1, 0)$

(2) a)
$$mcd(250, 111)$$

 $250 = 2.111 + 28$ (3)
 $mcd(111, 28)$
 $111 = 3.28 + 27$ (2)
 $mcd(28, 27)$
 $28 = 27.1 + 1$ (1)
 $mcd(27, 1)$
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 $mcd(27, 1)$

$$28 - (111 - 3.23) = 1$$

$$28 - 111 + 3.23 = 1$$

$$4.28 - 111 = 1$$

$$4(250 - 2.111) - 111 = 1$$

$$4.250 - 8.111 - 111 = 1$$

$$4.250 - 9.111 = 1$$

$$X = 4$$

$$y = -9$$

Multiplior de 4, -9

1-111 4-27-7-1

tomando en cunta que x= 4 & y = -9 se una solución multiplicamos los mismes por 19.

.. lodos los milliplos de x=76 & y=-171 Comprobación:

$$250(76) + 111(-171) = 19$$

$$19,000 - 18,981 = 19$$

$$19 = 19$$

3 Encontrar "c" para la ecuacioner diofantiana: 12x + 16y = C

med contramos med (12,18)

$$16 = 12 \cdot 1 + 4$$
 $mcd(17, 4)$
 $12 = 3 \cdot 4 + 0$
 $mcd(4,0)$

es 4

:. Le ecración diofantiana

presentada anteriormente

presentada solución

tiene una solución

tal que "c" será multiplo

de 4:4

①
$$mcd(162, 126)$$
 $162 = 1 \cdot 126 + 36$
 $mcd(126, 36)$
 $126 = 3 \cdot 36 + 18$
 $mcd(36, 18)$
 $36 = 2 \cdot 18 + 0$

mcd (18,0)

$$6$$
 div $a,b \in \mathbb{Z}^+$ con $a = 630$, $mcd(a,b) = 105$ & $mcm(a,b) = 242,550$, determine el valor de b .

$$mcd(a,b) \cdot mcm(a,b) = a \cdot b$$

$$242,550$$

$$\frac{105 \cdot 242,550}{105 \cdot 242550} = 630 \cdot b$$

$$b = 40425$$

$$m(d(630, 40425))$$

$$40425 = 64.636 + 105$$

$$m(d(630, 105))$$

$$636 = 105.6 + 0$$

$$m(d(105, 0))$$

6 Gamé Garg \$1020 en 20,50, si
$$501 \times 20y$$
 counter tiches di 20 & 50 puede tener?

1020 = $20.50 + 26.1$ Podria tener 20 fechas de 50.8
 $50 \times + 20y = 1020$
 $x = x_0 + \frac{b}{med(a,b)} \cdot k$

$$m(c) (50,20)$$

$$50 = 20 \cdot 2 + 10$$

$$m(d) (20,10)$$

$$20 = 10 \cdot 2 + 0$$

$$x = 1$$

$$x = 20$$

$$x = 10$$

$$x = 1$$

$$x = 20$$

$$x = 10$$

mcd (55, 17)

55 = 3.17 + 4 mid (17,4) 17 = 4 . 4 + 1 17 x + 55y = 1 mcd (4,1)

La suspensta es que puede usarla de enfinitas nemeros.

13 servidas del de 17 & 4 vaciadas del de 55, quedará i onza en el de 17.

$$17 - 4.4 = 1$$

$$17 - 4(55 - 3.17) = 1$$

$$17 - 4.55 + 12.17 = 1$$

$$13.17 - 4.55 = 1$$

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