Chap2

Exerce 1

1)
$$5x^2$$

= $x (5x)$
 $x = 5x$

1) $5\alpha^2 - 7\alpha y = 17$ ls diviseur enties naturels de 17 $\Rightarrow \alpha(5\alpha - 7y) = 17$ sont 1 et 17

$$\begin{cases} x = 1 \\ 5x - 7y = 17 \end{cases}$$

$$\begin{cases} x = 17 \\ 5x - 7y = 17 \end{cases}$$

$$\begin{cases} x = 17 \\ 7x = 17 \end{cases}$$

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le couple (17,12) est solection

duc Inti divise 3

 $D_0 = \langle -9, -3; -1; 1; 3; 9 \rangle$

due
$$2n+1$$

$$Dg = d-9,$$

20 +1 = -3 => M =- 2 2n + 1 = -1 = m = -1 $2n_{+}1 = 1 = 1 m = 0$ $2n_{+}1 = 3 = 1 m = 1$ $2n_{+}1 = 9 = 1 m = 1$

c) 20+1= -3=> m=-5

=61+12-61-3=9

as valeurs de n sont telles

que Gn+12 CZ

Ex.2 3a _ 5y=2 (E) 1) (x,y) solution de E alors 3x - 59 = 2 [5] (=) 3x = 2 + 5y [J) 4) 32 = 2 [5] 3n = 2(5) = n = 4(5)=> il eniste REZ to 2=5k+4 3. 2= 5/2+4 Sol de E 3x - 5y = 2 (3) 3(5k+4) - 5y = 2 S= d (5B+4; 3B+2); REZ. Exoco (a 3 1) 7 = -2 [9] 7" = (-2)" [9]

1.
$$lo23 = 3 \times 674 + 1$$
3. $lo23 = 7(9)$

5= 2+ 4+3+32+35+12+0+8+72

= 168 = 3 (11)

la clé est 3.

2a)

978201786621 I=9+8+0+7+6+2=32

2=7+2+1+8+6+1=25

1+37 = 32+3x25 = 107 = 7(10)

1 to => clé = lo- R = 3.

b) 978-2-08-7-16621 denne lo m cle

S= 01 + 202+304+404+505+606+707+808+909

= 1 x 7 [9] = 7 [9]