Diofautori egyeletik Hely x b y szelvedra teljerül? 13x + 8y=17] Kirzameljul d-t. A'ltalaus alal: ax+ly=C (1318)=1 a, b, c ETL 13x+8y=14/:1 XIYEK 13x+8y=17/end. olgo. 13=2·1+5 13-8=5 5 8-(15-8)=3 8=5·1+3 8-5=3 8-13+8=3 5 = 3.1+2 5-3=200 / 2·8-13=3\ 3= 2·1+1 3-2=10, 2=2·1+0 (13-8)-3=2 2 = 2.1+0 13-8-(2.8.-13)=2 13-8-2.8+13=2 13.(-3)+8.5=1/.17 2.13 - 3.8 = 2(2-8-13)-2=113. (-51)+8. 85=17 X=-51+ E.8 2.8-13-(2.13-3.8)=1 4-85-2.13 2.8-13-2.13+3.8=1 5.8 - 3.13=1 meglaptul ax medeti alalat

2)
$$12x + 8y = 10$$
 /: 4 $(12_18) = 4$
 $3x + 2y = 10$ /: 4 $(12_18) = 4$
3) $12x + 20y = 28$ /: 4 $(12_1, 20) = 4$
 $3x + 5y = 4$ /welvelog.
 $5 = 3 \cdot 1 + 2$ $5 - 3 \cdot 1 = 2$ $3 - 2 = 1$
 $3 - 1 = 1$
 $1 - 1 \cdot 2 + 0$.

X= 14+2.5

3-2+5-(-1)=1 1-7

y=-7-2.12

3.14+5.(-7)=7

$$5 \cdot 1 + 2(2) = 1 \quad | \cdot 6$$

$$5 \cdot 6 + 2 \cdot (-12) = 6$$

$$x = 6 \quad | \cdot 2 = -12$$

$$+ \frac{2 \cdot 2}{2} \quad | \cdot 2 = 2$$

$$13x + 5y = 6 \quad | \cdot 2 = 3$$

$$13 - 2 \cdot 5 = 3$$

$$5 - 3 \cdot 1 = 2$$

$$3 - 1 \cdot 2 + 1 \quad | \cdot 3 - 2 \cdot 5 = 2$$

$$3 - 1 \cdot 2 + 1 \quad | \cdot 3 - 2 \cdot 5 = 2$$

$$13 - 2 \cdot 5 - 2 \cdot 1 = 1$$

$$13 - 2 \cdot 5 - 2 \cdot 1 = 1$$

$$13 - 2 \cdot 5 - 2 \cdot 1 = 1$$

$$13 - 2 \cdot 5 - 3 \cdot 5 + 13 = 1$$

$$13 - 2 \cdot 5 - 3 \cdot 5 + 13 = 1$$

$$13 - 3 \cdot 5 = 1 \quad | \cdot 6 \quad | \cdot$$

(h) 10x+ hy=12 /:2 (10,4)=2

5-2-2=1

5x+2y=6 /cul. algo.

5=2.2+1

2 = 1.2+0

$$h \times +3y = 8 \quad (\text{unl-olgo})$$

$$h = 3 \cdot 1 + 1 \quad h - 3 = 1$$

$$3 = 2 \cdot 1 + 1 \quad h \cdot 1 + 3 \cdot (-1) = 1 \quad | 3 - 2 - 2 \cdot 1 + 0 \quad h \cdot 8 + 3 \cdot (-8) = 8$$

$$\times = 3 + 2 \cdot 3 \quad \times -7 + 2 \cdot B$$

$$y = -8 + 2 \cdot h \quad y = -2 \cdot A$$

$$*$$

$$T \times +11y = 118 \quad (\text{Becount-lemma + ent.olgo})$$

$$11 = 1 \cdot 7 + 4$$

X-> + 1-B 4->- 4. A

y= 236

(C) |8x+6y-16) /: 2 (8,6)=2

 $1 = 4 - 3 = 4 - (7 - 4) = 4 - 7 + 4 = 2 \cdot 4 - 7 =$ 4 = 3.1 + 1 3= 3. 1+0 = 2.(11-7)-4=2.11-2.7-4-

$$\frac{x = -354}{=}$$
8 (4F) $\frac{47x + 49y = 10.000}{}$