Resolute de exercícios -
$$02 - linguegan algebrica$$

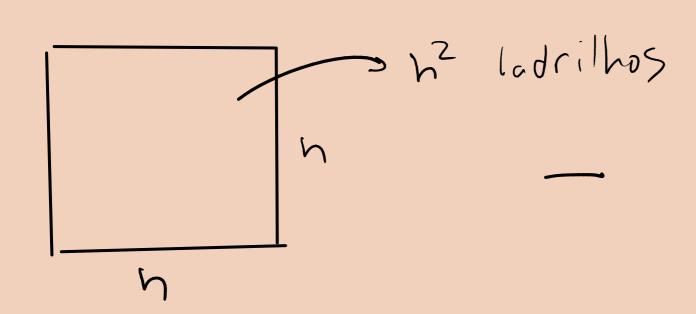
18 a) i) 8 ii) 16 iii) 20 (v) 36 v) 1

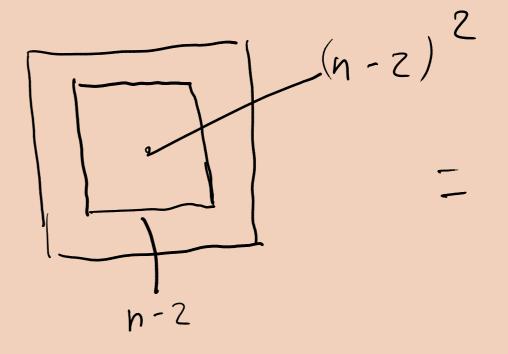
b) i) $\frac{44}{4} + l = 12$ ii) $\frac{60}{4} + l = 16$ iii) $\frac{400}{4} + l = 101$

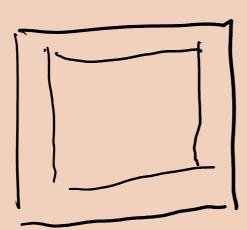
c) $M_n = 4n - 4$

e) O maior miltiplo de 4 que e menor que $loc1$ e $loco$.

10 $loco$ l







$$\frac{1}{100}$$
 $\frac{402}{600}$ $\frac{1}{16000}$ $\frac{1}{160000}$

$$\frac{1}{5}(i) = \frac{12 \cdot 12 - 194}{36}$$

$$\frac{3}{6} = \frac{7}{56}$$

$$\frac{3}{6}$$

15.
$$\frac{1}{1}$$
) $\frac{1}{1}$ $\frac{1}{1}$

2° 3 3° 5 4° 7 5° 9 vezes dois vezes dois

22) a)
$$1 + 2 + 3 + 4 + \dots + 24 = T_{24}$$

 $29 + 23 + 22 + \dots + 1 = T_{24} + \dots$

$$24 - 25 = 2T_{24}$$

$$12 \cdot 25 = T_{24}$$

$$= 300 //$$

$$30+30+\cdots+30+30=2T_{29}$$

$$=) T_{25} = \frac{30.29}{2} - 15.29 = 435$$

C)
$$S = 2+4+\cdots+38+40$$

$$S = 40+38+\cdots+4+7$$

$$25 = 20-42$$

$$S = 420$$

$$3 = 3 + 6 + \cdots + 87 + 50$$

$$5 = 50 + 87 + \cdots + 3 + 6$$

$$25 = 53 + 53 + \cdots + 53 + 53$$

$$30 \vee (30)$$

$$25 = 30.53$$

 $5 = 15.53 = 13.55//$

e)
$$10 + 20 + ... + 50 + 100$$

 $5 = \frac{10 - 10}{2} = 550$

9) Métoro 1:

$$S = 1+3+...+57+59$$

 $2S = 60-30$
 $S = 900//$
Métoro 2:
Pelle equestre ne final de segue quadredo somo sone de (mporo) temos que a somo dos primeiros 30 (mpores e o nosmo que $30^2 = 900$ //

 $23 \circ T_n = 1+2+...+(h-1)+h$

$$T_n = h+(h-1)+...+2+1$$

$$2+n = (n+1)+(h+1)+(n+1)+...+(h+1)$$
N Vezes

$$2T_{h} = h(h+1)$$

$$T_{n} = \frac{h(n+1)}{2}$$