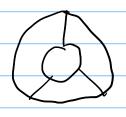
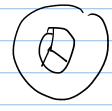
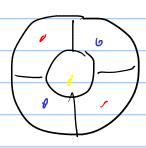
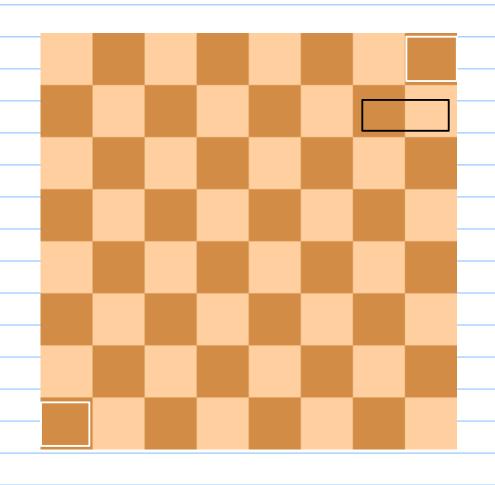
$$9 \in \mathbb{Z}$$
  $9^2 + 9^4 + 9^8 = 6^2 - 5 \in \mathbb{Z}$ 

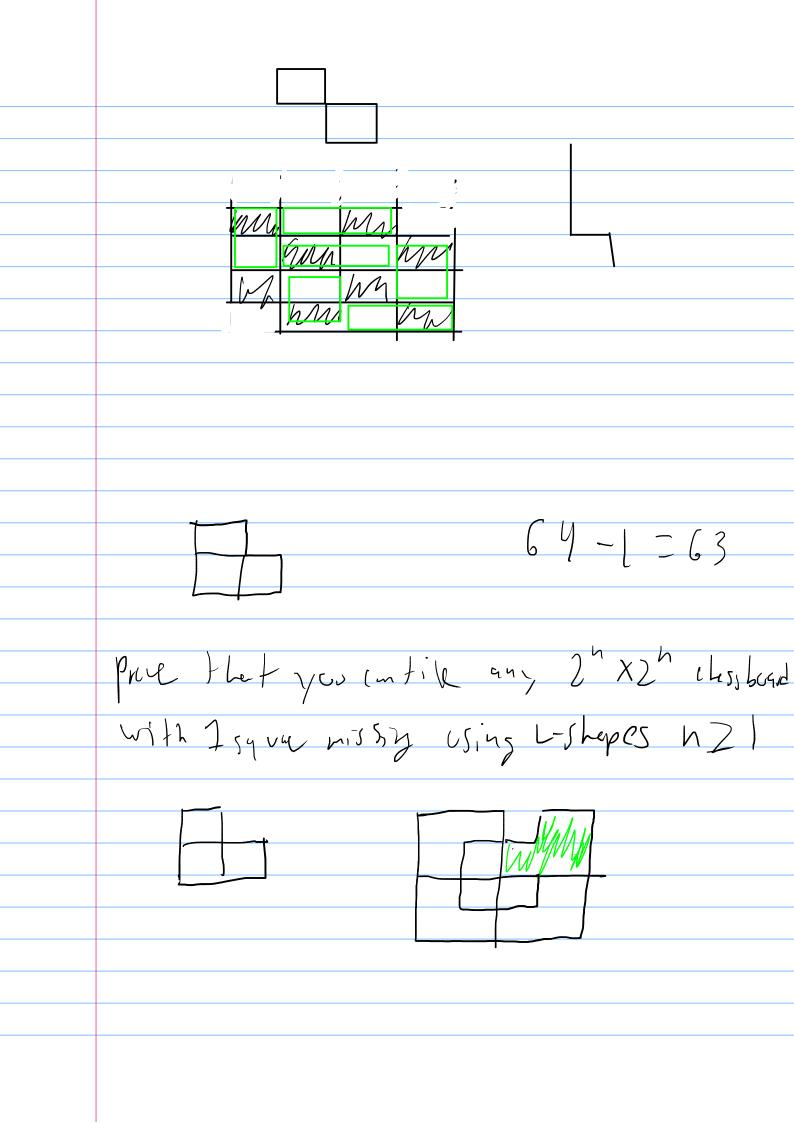
fire-7 R

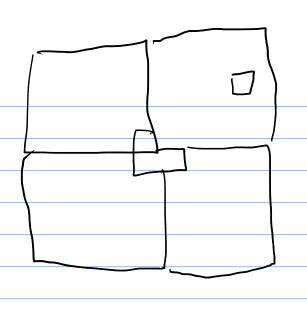












$$2^{1} = \times_1$$

$$\frac{x_1 + x_2}{2} = 6$$

$$\frac{2^{1}+2^{1}}{2}-6$$

$$\frac{2^{4-72}+2^{12}}{2}=6$$

 $\frac{7-x_{1}}{2} = 12$  16+2=12 16+2=12 2-12+16=0 12+144-64

 $\frac{12 \pm \sqrt{80}}{2\sqrt{20}}$   $\frac{6 \pm \sqrt{20}}{2\sqrt{10}}$ 

Proof there an infinite Hof primes  $S = \{P_0, P_1, P_2, P_3 \dots P_n\}$ Werent to price there is aprilie not in S 2-Po.Po.Po. o.Pn Q+1 Pi Q+1 has prince fectors Venipeter of Qt1 ferelli 21, So pure of the priss a factor of Ott So... of is a prine het out he list

$$a + -1$$
 is a multiple of (a-1)

 $a, b \in \mathbb{Z}^+$ 
 $(a-1)(y) = ax - x$ 
 $b = ab = (a-1)(y) = ax - x$ 
 $b = ab = (a-1)(y) = ax - x$ 
 $ab = (a-1)(y) = (a-1)(y)$ 
 $ab = (a-1)(y) = (a-1)$