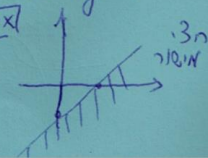


4.19

(k) $\left(1 - \frac{1+\sqrt{5}i}{2}\right)^{24} = \left(\frac{2-1+\sqrt{5}i}{2}\right) = \left(\frac{1+\sqrt{5}i}{2}\right)^{24} = (cis 66)^{24} = cis 0 = 1$

(c) $|z-3| \leq |z-1-i| \rightarrow (x-3)^2 + y^2 \leq (x-1)^2 + (y-1)^2 \rightarrow -6x+9 \leq -2x+1-2y+1$
 $\boxed{2y+7 \leq 4x}$



3n
7/10,11