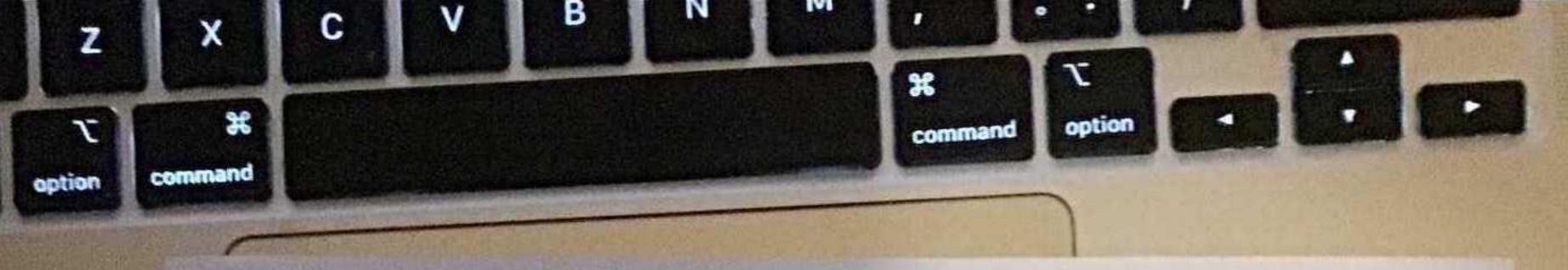
at mos



each poder can contains at least 0 dollar and 44 44 soins on most supposed that we put a coin in the first pooker region in the second pooker the 2 air ith the tird and sonon ... tirtil the tenth puchet we have $0+1+2+\cdots+9=\frac{4+4\times 9}{2}=45$ the since 44 < 45so the last two poder must contain 8 aims.

(ii) To generalize the problem. The hours that the number of coins must be target than he less that. $0+1+2+\cdots+p=\frac{1+p-p(p-1)}{2}$ therefore, $n\geq \frac{1+p-p(p-1)}{2}=\frac{p^2-p}{2}$

Q3

(by $f(x) = (n)(x^2+x+7)$). $f(x) = \sqrt{x^2+x+7} = \sqrt{x^2+x+7}$ (at $g(x) = 2\sqrt{x^2+x+7}$)

(at $g(x) = 2\sqrt{x^2+x+7}$)

we have $g(x) = x^2 = x$

2. $\int \frac{7}{0x-3} \frac{7}{12x^2-1} dx = \int \frac{7}{2x^2-1} \frac{7}{3} dx$ $assume that <math>g(x) = 4 + \frac{7}{4x-1}$ $g(x) = \int \frac{7}{4x+3} dx = \frac{7}{4} \ln(4x-5)$ $g(x) = \int \frac{7}{4x+3} dx = \frac{7}{4} \ln(4x-5)$

Som I have freger that.

124. I HKA membry HK citizent we condetine passenger tobes a first-class sort as event A,

not member of HKA as event B.

- PIAAB)= PIA) PIBIA) = where we know PIA) = 1/6. (BIA) is the went the probability that, When people take first -class sent, but not he/she ofon is not HKA member.

We know P-13-1A)=== 1-18%= 82% P(BIA)=1-30% x60% = 1-18% -82%

-- P(ANB): 578 P(A) RB(A)= 5% × 82% = 4.1%