(Grover algorithm) Time Conflexity IN $N=2^{M}$ are using n pulsit f(10)=1-Time Complexity I M there is one a luple solution so I JN If there are two Solution M=2 14/4= 112 J. N-8 3 Publo-= 3.14 = 1.57 1 T8 = 1 x2 /2 = 3.14+2=1.44 2 2.21 any 286/25 -I+2A17 23 19 Inversion = 67

$$-\frac{V+20}{V+20} = (-53+42) + 42 = -11+42=31$$

$$-\frac{V+20}{V+20} = -38+84=46$$

$$-\frac{V+20}{V+20} = -17+84=67$$

$$-\frac{V+20}{V+20} = -\frac{7}{4}+84=67$$

$$-\frac{7}{4}+\frac{7}{4}=\frac{7}{4}+84=61$$

$$-\frac{7}{4}+\frac{7}{4}=\frac{7}{4}+\frac{7}{4}+\frac{7}{4}=\frac{7}{4}=\frac{7}{4}+\frac{7}{4}=\frac$$

$$A = \begin{bmatrix} \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} \\ \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} \\ \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} \end{bmatrix} = \begin{bmatrix} \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} \\ \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} \end{bmatrix} = \begin{bmatrix} \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} \\ \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} \end{bmatrix} = \begin{bmatrix} \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} \\ \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} \end{bmatrix} = \begin{bmatrix} \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} \\ \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} \end{bmatrix} = \begin{bmatrix} \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} & \frac{1}{2^{n}} \\ \frac{1}{2^{n}} & \frac{1}{2^{n}} \\ \frac{1}{2^{n}} & \frac{1}{2^{n}} \\ \frac{1}{2^{n}} & \frac{$$

a= / -V+2a = -0+2.4= 1/2 110) -V+2a = -1+2.4=