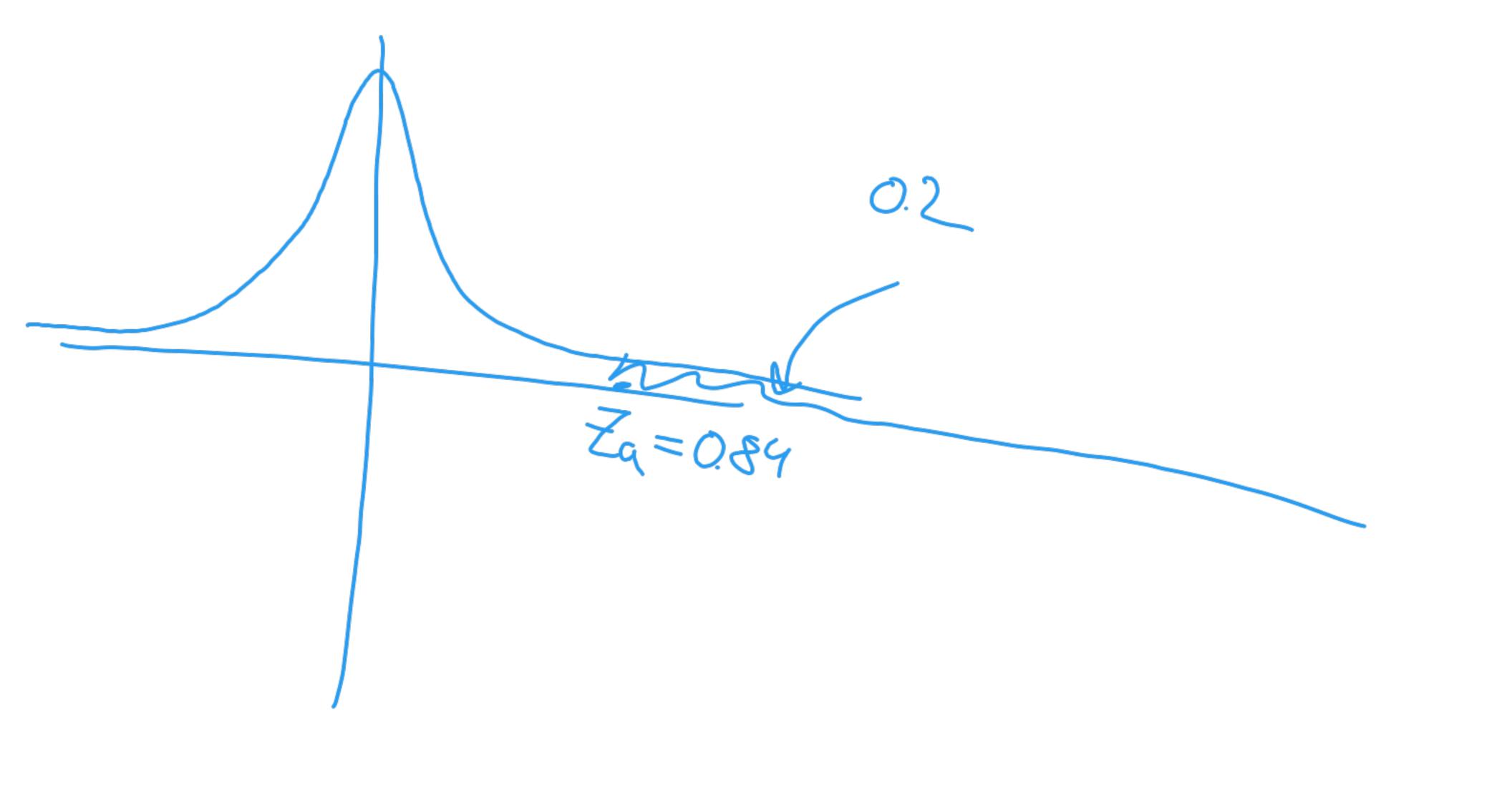
7 de (g:+a)  $+ \int_{0}^{2\pi} dx + \int_{0}^{3\pi} dx = 1.1 + 1.2 + 03.2 = 2.6$  (6)  $\sqrt{(60, (10))}$ P(X+c>a)=pt - time leaving home  $P(X > a - c) - \hat{p}$ P(T>0) = 0.2 P(T>0) = 0.2 P(T>0) = 0.2 P(Z>0) = 0.2P(T > 9 - 5) = 0?  $a = 60 = 0.89 \Rightarrow 0 = 68.9$ L=9a.m-68.4min=7.51 A.M



Joint P.M.F.
$$P(X=x_i) - margind$$

$$P(Y=y_i)$$

$$X=X_1 P_{A_1} P_{A_2} P_{A_3} P_{A_4} P_{A_5} P$$

$$Cov(X,Y) = E[X,Y] - E[X,Y]$$

$$E[g(X,Y)] = \sum_{g(X,Y)} g(X,Y,y) P(X=X_i, Y=Y_i)$$

$$Corr(X,Y) = \frac{Cov(X,Y)}{\sqrt{corr}} \quad corr = 1 \longrightarrow V = \alpha X + \delta$$

$$\begin{array}{ll}
(9) & \chi + \gamma \\
& \forall \text{or}(\chi \pm \gamma) = \left[ \left( \chi \pm \gamma - E[\chi \pm \gamma] \right) \right] = \\
& = \left[ \left( (\chi - E[\chi]) \pm (\gamma - E[\gamma]) \right)^{2} \right] = \left[ \left( (\chi - E[\chi]) \pm (\gamma - E[\chi]) \pm (\gamma - E[\chi]) \right] + (\gamma - E[\chi]) \pm 2 \left( (\chi -$$

 $(7) \times \mathcal{N}(1,3)$ P(X > Y) P(A > 0)V~N(0,4)  $P(X-Y>0)P(Z>\frac{-1}{\sqrt{7}})=0.648$ AN M(1, 7) E(X-Y) = E(X) - E(Y) = R - 0 = 1 Var(X-Y) = Var(X) + Var(Y) = 2 -0.372