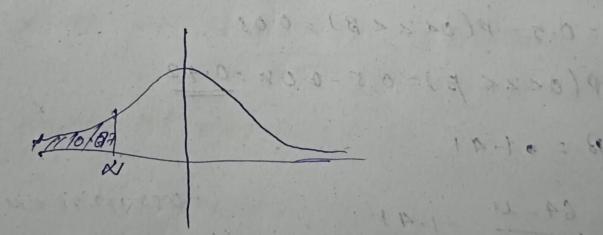
e an a ND 4% g sh items ar under 35 and 87% au under 63. Find & and of the Dishbut Joh; P(x = 35) = 7 -> 0 TAD IN MANY P(x <63) = 89 ->0

Take 2 = 2 - M ~ A/(0,1)

N: 35 => 2:35-M = d

D = P(2 < 0):0.07



P(0<220)=0.5-P(0<220)=0.0.7 P(0<2<0)=0.5-0.07 =0.43

5 4 - 15 + -0.9.0 -

177:150 -151

2 E-1.48

$$\frac{35 - M}{35 - M} = -1.48$$

$$35 - M = 7.48 - M = 35$$

$$-1.48 - + M = 35$$

$$X = 63 \implies 2 = 63 - M = 8$$

$$0.5 + P(0 < 2 < \beta) = 0.89$$

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$$f(n) = \begin{cases} Ae^{-An} & n \ge 0 \\ 0 & otherwise \end{cases}$$

A continuous rendom variable a is said to tollow emponentiate distribution with parameter A if its poly

o find the mean and variance of empowential destributes
solve The exponential distribution A(m) = 2e-1m, n ≥0
Mean = E(x)

$$m = E(X)$$

$$\int_{-\infty}^{\infty} 2e^{-t}(x) dx$$

$$= \int_{-\infty}^{\infty} 2e^{-t}(x) dx$$

$$= \int_{-\infty}^{\infty} 2e^{-t}(x) dx$$

$$= A \int_{0}^{\infty} x \cdot e^{-An} dn$$

$$\int uv dx = uv^{2} - u_{1}v^{2} + u_{2}^{11}$$

$$= \lambda \left( x \left( \frac{e^{-An}}{-A} \right) - \alpha \left( \frac{e^{-An}}{-An} \right) \right)^{n}$$

$$= \lambda \left( -\frac{ne^{-An}}{-e^{A}} - \frac{e^{-An}}{-A^{2}} \right)^{n}$$

$$= \lambda \left( 0 - 0 \right) - \left( 0 - \frac{e^{0}}{A^{2}} \right)^{n}$$

$$= \lambda \left( x^{2} \right) - \left( \frac{e^{-An}}{A^{2}} \right)^{n}$$

$$= \lambda \left( x^{2} \right) - \left( \frac{e^{-An}}{A^{2}} \right)^{n}$$

$$= \int_{-\infty}^{\infty} x^{2} Ae^{An} dn$$

$$= \int_{-A}^{\infty} x^{2} Ae^{An} dn$$

$$= \lambda \left( \frac{n^{2}}{-A^{2}} - \frac{2n}{A^{2}} \left( \frac{e^{-An}}{-An} \right) \right)^{n}$$

$$= \lambda \left( \frac{n^{2}}{A^{2}} - \frac{e^{-An}}{A^{2}} - \frac{2n}{A^{2}} \left( \frac{e^{-An}}{-A^{2}} \right) \right)^{n}$$

$$= A \left[ \left( 0 - 0 + 0 \right) - \left( 0 - 0 - 2e^{0} \right) \right]$$

$$= A \times 2 = 2$$

$$A^{2} = A^{2}$$

$$Vor(x) = 2 - \left( \frac{1}{A} \right)^{2}$$

$$= \frac{2}{A^{2}} - \frac{1}{A^{2}} = \frac{1}{A^{2}}$$

( 1 ) xxc . ch. 3 . xx [ 6 . 6