1. Excepting sacave per per
$$1 = \frac{2}{25}$$
, $f_{x}(x) = \frac{2}{25}$, $e^{-\frac{2}{25}x}$, $e^{-\frac{2}{25}x}$, $f_{x}(x) = \frac{2}{25}$, $f_{x}(x)$

3. Bavovish sacavojen pe
$$\mu = E(x) = 1800$$
 sai $\sigma = 40$

a.) $P(x<1700) = P(\frac{x-\mu}{\sigma} < \frac{-100}{40}) = P(z<-\frac{10}{40}) = 7 - P(\frac{10}{40}) = 1 - P$

4. Bavovish sazavopin pe
$$\mu=80$$
 sai $P(x<86)=0.885$, $\sigma=?$
 $E_{X}\omega: P(x<86)=0.885=9(1.25)$ apa:

 $P(x<86)=9(1.25)<=P(\stackrel{x}{=}4<\frac{6}{5})=9(1.25)<=>9(\frac{6}{5})=9(1.25)<=>$
 $\frac{6}{5}=1.25<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=>0.885=9(1.25)<=0.885=9(1.25)<=0.885=9(1.25)<=0.885=9(1.25)<=0.885=9(1.25)<=0.885=9(1$

5. Havovinn sazavojin με μ=565,
$$\sigma=72$$
a) $P(475 < x < 640) = P(-1.25 < Z < 1.04) = $\Psi(-1.25) + \Psi(1,04) - 1 = 0.8844 + 0.8508 - 1 = 0.7452$$

2)
$$P(x) = 0.1 \iff x = \varphi^{-1}(0.1) = \varphi^{-1}(0.9) = 1.29$$

Apa Ga prime: $P(x \le x) = 0.1 \iff P(x \le x) = \varphi(1.29) \iff P(\frac{x-569}{72} < Z) = \varphi(1.29)$
 $\varphi(\frac{x-565}{72}) = \varphi(1.29) \iff \frac{5-565}{72} = 1.29 \iff 3 = 657.88$

6. Στην εκθετική κατανομή ο χρόνος ζωής είναι ανεξάρτητος από την ηλικία του αντικειμένου. Άρα το συχητηριμένο παράδειχμα δεν ακολουθεί εμθετική κατανομή αφου από την στιχμή παραχωχής θα επρεπε και τα καινουρία, αλλά και τα μεταχειρισμένα ανταλλαιτικά να έχουν, χρόνου ζωής.

κοινο ποσοστο

το Πρέπει να βρω το χ: $\int_{0}^{3} x(1+x) dx = x[x + \frac{x^{2}}{2}]_{0}^{3} = 1c = x = \frac{2}{15}$ Άρα η $f_{x}(x)$ χίνεται: $f_{x}(x) = \{\frac{1}{3}(1+x), 0 < x < 3\}$ $f_{x}(x) = \{\frac{1}{3}(1+x), 0 < x < 3\}$ Έτσι έχω: $Y = x^{2} + 1 c = x = \sqrt{y+1}$ χαι $dx = \frac{1}{2\sqrt{y+1}} dg c = \frac{1}{2\sqrt{y+1}}$ [σχύου όχι $f_{yy}(y) = f_{yy}(y) = f_{yy}(y)$] $f_{yy}(y) = f_{yy}(y) = f_{yy}(y)$

 $loxie οz: Sg(y) = f_x(g^{-1}(y)) · | dg g^{-1}(y) | dρα:$ $f_y(y) = f_x(\sqrt{y+1}) · | dg g^{-1}(y) | dρα:$ $f_y(y) = f_x(\sqrt{y+1}) · | dg g^{-1}(y) | dρα:$

8. · F(\(\mu\text{s}\) /= P(\(\text{x} \sigma\(\text{\pu}\text{s}\)) /= P(\(\text{x} \sigma\(\text{\pu}\text{s}\)) = P(1) /.

·F(u-s) 1/= P(x-H s-1)/= P(z=-1)/=(1-9(1))1/.

·F(µ) /. = P(x-1<0) /. = P(0) /. (231) 9=(4) 4 (4)

"F(\(\mu+2\s))/= P(\(\frac{\times-H}{s} < 2))/= \(\theta(2))/.

BONDWAN ROBONDAN DE HEBO NOU PORCED = 0 885 00=3.

EXUL: P(xc86) = 0 885 = 4(3.25) a DOL.

P(x-80) = P(x25)x = P(x25)x = P(x25) = P(x25) = P(x25)x = P(x25)x

a) P(475< x<645)=P(-725<Z<1.04)=P(-125)+P(1,04)-1=

0.894140.8508-1=0.4452

Ann Bo montes: P(KSX)=01<=)P(KSX)=P

P(4-869) = P(1124) < 307-5 & 65(869) = (838-8)

Σσην εχθεζική καθέστημή ο χρονός (μης είμαι ανεξάρετευς από είην πλικία

as ancinsely ever the polytere property and for anotobes entering

Kazavojin dijoj ano eni delijin nacaysiyni bu enosti neli en kalionik

TROUGHT TROUBLE OF DRIED CHELD BY 37 4 WIST A DEFT DE PORTO

SONO MOMODED