X = "va reso des pocodinhos acucary"

P(XK6,7) percentagen socos med heros.

a)
$$P(x<6,7) = \Phi\left(\frac{6.7-8}{0,6}\right)$$

2 0,01513

1,513% pocodinhos una cherces

80 socos -0 648 gramas

$$A = 0.02$$
 $A = \sqrt{1 - 0.02} \times \sqrt{80}$

Nos de leve rejerten a media antenor preis esta dentos lo visersolo de consideraco. 7.944 < 8 < 8.256 7.2 naz 100 Xai - "va deroco de una Langodo em u.t" (1) XA0 = 1 & X; = 100 Z X: ni 2 100 × (50×14 + 35×180+45×350+ 6 x 450) = ZHH JA = 100-1 2 (2:-x) x ni 2 100-1 ((50-244)°. 14+ (150-244)° 35+(350-1244)° 45+ (450-244)2.6) 2 16125 SA = (16125) = 126,985 .. XA N (M, 126,985)

$$T = \frac{1}{95\%} = \frac{1}{2} = \frac{1}{2}$$

7, Z C) 7c_p = 350

Nos este dentro do intervalo do conficienca con objer de 0.05, logo pode-so por em comerca a estruação como feelso.

7.3 X: -" v-a pero de un recedo "

N>>30 20 52 52

a) IC 96%.

X = 1 86 2 × 2 N (N) 230, 2)

d=0,04 IC = [20-b, Zo+b]

 $\Delta = Z_{1-\frac{d}{2}} \times \sqrt{Z_{30,2}}$ $Z = \sqrt{1-\frac{d}{2}} \times \sqrt{Z_{30,2}}$

z 2,0537 × Z,6767

z 3,36

IC96% = [182,839, 189,56]

b) IC 99% d=0,01

99% d=0,01 IC 2 [181,985, 190,414]

C) I Casy, = u=120 , 5=320,2 , \(\int z = 186,2

ICasy, I 182,99, 189.40]

7.4 X: - v.a listanció ente os tijolos em am 821 cm2 \(\frac{1}{2} = 2,2 cm IC 95% a) ICasis = [Zo- D ; Zo+D] dz0,05 D = Z = x 5 Z D- (1-9,055) × 1 z 1,96 x 5 20,27718 IC 95% = [1,9228, Z, 477]] IC = [1,871, 2,528] D=0.02 Z =2,326 proceeding c) A 3/2 = D D=0,27718 NZ? 0127718 = 1,96 x Jut XMPTV 5 205,323.163 N 2 1,96 2 200 N=187,86 d) IC, = [2,2-0,06; 2,2+0,06] D = 0,06 z Z - ~ . Tro 1-2=0,4889 Z1-2=0.06 x J120 z016572 1-0=49% XMJDP & = 2×0,235 ₫ (0,6572) = 0,74447 1-d=0,74447 (D) d=0,5110

$$0.4 = \frac{7}{2} \times \sqrt{\frac{10^{2}}{10^{2}}} \times \sqrt{\frac{10^{2}}{10^{2}}} = 0.02$$

$$n = \sqrt{\frac{\Phi'(n-0.04) \times 62}{0.1}} = 607.375$$

$$\langle \rangle$$

$$Z_{1-\frac{\lambda}{2}} = 0.01 \times \sqrt{250}$$

$$\left(\begin{array}{c}
0.1 \times \sqrt{250} \\
1.2
\end{array}\right) = 1 - \frac{d}{2}$$

$$= 1 - \frac{d}{2}$$

F.6. Xxi via desocco vadude en 1000xhoros Suz 180 $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{150}$ $\frac{1}{150}$ $\frac{1}{150}$ $\frac{1}{150}$ $\frac{1}{150}$ $\frac{1}{150}$ 2 1 (1.5 x 29 + 2.5 x 43 + 3.5 x 57 + 4.5 x 21) Zo = 2,96° 1 = 1 ((1.5-2.96) × 29 + (2.5-2.96) × 43 ... 20.96 I C 2 [2,806, 3.1136] Z21,96 D≥0,15363 δη ξης 100 Σης = 3,150 β=0,85 Χ Ε ΤΟ ΕΧΕΙ ΝΝ (μ, 0,85 Ζ) $\overline{X}_{A} NN(M, \frac{0,96^{2}}{150}) & \overline{X}_{B}NN(M, \frac{0,85^{2}}{100})$ $X_{A} - X_{B} N N (-94) = \frac{0.85^{2}}{100} + \frac{0.96}{150}$ $\frac{1}{X_{A}-X_{B}}$ = $\frac{1}{X_{A}-X_{B}}$ = Z=1,645 D20,1902 Now se pode diger que ha grand diference ton sencis o posto.

6. Xi-" va porobilidade de redantes industricais em x 1000 horas. " E de J M= 150 Duracco [1-2[[2-3[[3-4[[4-5[mærce 1.5 2.5 3.5 29 43 57 21 n \$30 : 0 5 = S. 元 - 1 2. x; ni = L (1.5 x 29 + 2.5 x 43 + 3.5 x 57 + 4.5 x 21) = 2,97 × 1000 hours. 32 = 1 \(\(\int (\int - \int n)^{\int} \) Mi $= 1 ((1.5 - 2.97)^{2} 29 + (2.5 - 2.97)^{2} + 3 +$ (3.5-2.97)2 57 + (4.5-2.97)2 ZI) z 0,9217 3 = Jo, 9217 = 0,960 ; Z = 21,96 IC = [2.816, 3.124] D=0,15363 a) b) N=? D=0,1 ICas? > Z1-8=1,98 $\Delta = 1.96$ 0.960 0.1 = 1.96 0.960 6.

c) $y_{R} = 100$ $\overline{z}_{S} = 3.15$ S = 0.85

MA=150 ZA=2.97 8=0.96

Zx-Xp=-0.18

IC 90% - Z - 3 2 1,645

 $\Delta = Z \times \frac{0.85^2}{100} + 0.96^2$ z 1,645 x 0.115624

~ 0.190

IC JA-UB T -0.18-0.19, -0.18+0.19] NOS la grando diferenca, os sinas são contraviors.