```
Youssel Tarek Homed
                       17126039
                                   GRSI
4-6
        P(Z<1.32) = $\O(1.32) = 0.90658
 391
        D(Z <3.0) = $ (3.0) = 0.99 865
        P(Z71.45) = 1-0 (1.45 = 0. 0735293
        P ( Z7-7.15) = 1- $(-715) = 1-(1-0) 215) = +0.98422
        p ( -2.34 < Z < 1.76) = b(1.76) - (1-0(2.34) = 0.95115429
40) p(-1 < Z < 1) = (1- b(1)) - 0.6826854
      P(-7<252): $(2) - (1-612)) = 0.95449988
      P(-3<2<3) = 031 - (1-0(3) = 0.99730006
      p (273) = 1- $(3) = 0.00134997
      P ( 0 < 2<1) - B (1) - B (0) = 0.34134474
      P(Zcz) = 0.9 = Q(z) a Z= 1.28
411
       P(Z < Z) = 0,5 = 0 (Z) Z=0
       P( 777) = 0.1 0(2) = 09 Z=1.28
       p (772) = 0.9 (cz) = 0.1 Z= -1.78
       P(-1.74 < Z=z) = 0.8 = Q(21 - (1- a(1.24) = 0.8
                     01-21 = 0.90934862
                        7-1.34
      P(-z < Z < z1 = 0.95 = 20(2) - 1 = 0.95 $ (7) = 0.915
42)
                    2= 1.96
P(-2 < Z < z) = 0.50 = 20 (2) - 1 = 0.59 0(2) = 0.535 z = 2.58
 P(-z < Z < z) = 0.68 = 2 D(z) - 1 = 0.68 p(z) = 0.84
                                                 7~1
 P(-2 < Z < Z) = 0.9571 = 20(2) - 1 8(2) = 0.99865 Z = 3
```

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43) 4=10 5=2
   P(x < 13) = P(z < \frac{13-19}{2}) = P(z < 1.5) = \phi(1.5) = 0.93319277
 P(x79)= P(z7 9-10)= P(z7-15)= 1- (1-0(15)= 093319277
 P(6< x<14) = P(6-10) = 0(2) - (1-6(2)) = 0.95 449988
  P(2<x<4) = P(2-10 < 2 < 4-10): (1-0(3))-(1-6(4))=0.00[3]878
  P(-2 < x < 8) = P(-1-10 < 2 < 8-10) = (1-0(1)) - (1-0(6)) = 0.1586 5526
49) M=0.5 6=0.05
   P(x70.62) = P(z7662-0.5) = 1- $ (2.4) = 0.60 $ 1975}
    P(s.u7 < x < 0.63) = P(s.u7-0.5) < 2 < \frac{0.63-0.5}{0.05} = 0.72075572
P(x < x) = 0.9 = P(7 < \frac{x-0.5}{0.05}) = b(\frac{x-0.5}{0.05}) = 0.72075572
     X-0.5 = 1.78 X= 6.564
  (59 M = 0.00) 6 = 0.000 4
       P( x 7 0,026) = P(2 7 6.026 -0.002 ) = 1-0(1.6)= 6.06686725
      P( G. 00 | 4 < 0.02 ( ) = P ( G. 00 | 4 - 0.002 < Z < 1.5) = $(15) - [1-0(65)
                                                   = 0.8 66 38 22 r
      P(0.0014 < x < 0.0026) = P( 400006 < 7 < 0.0006) = 25 (0.0006) -1-0.995
                 à ( 0.000 6 ) = 0.9975
                                  0.0006 . 2.8
                                 0.000 2 1428 5714}
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4-7
                              is it find the said t
                      n: 200 p:0.4 9:0.6 men: np:180
                                                                                                                                                = Inpg = Wis
p(x < 70) = p(z < 70-80) = 1- $\phi(1,40) = 0.07093374

p(x < 70) = p(\frac{1}{64}\frac{2}{62}\frac{20-80}{64}) -- 2$\phi(1.40/1) = 0.85613252
         63) n= 1000 p= 0002 | q= 0.98 1 man inp- 20
                                                                                                                                                            6: Jup = 4.427
          P(x775) = P(Z \ge \frac{25-7c}{6.427}) = 1-4(1.13) - 0.17973816
          p ( 20 < x < 30 ) = P ( 0 < 72 < 2, 26 ) = $(2,26) - $(0) = 0.48869619
       65) n=500 p:0,001 q=0,999 np=5 ₹5 hc
  P(x7,19) = P(z7,2,01) = 1-d(2,01) = : Snpq : 2.235
                                                                                             = 0.022216
         67) n = 100 P = 0.05 q = 0.95 np - 5
                                                                                                                                                               6: Inpq = 2.179
                  P(X7,1) = P(Z7, -1.84) = 1- (1-6(1.84)) = 0.967 1694
            69) N= 10000 =: 5x = 100
                                                                                                                   P= P(Y 7 10200)
                                Let x binomial N= 365
                                                                                                                                             = P(Z72)=1- $(2)
                                                                                                                                                                        - 0.0 2275
                              E(x) = np = 8.5 days
                       \rho(x7/5) = \rho(77/5-8.3) = 1-0.00938669
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e) P( ×7356) = P(-	2 7 350 -316	) = 1- 0(1.	34) = 0 090	ILS A	Prince and the second
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