```
8. P. = 0.55 P2 = 0,6
 (1) to,075(10)=2,228
                                                     (P1-P2) = Z = P(1-P1) P(1-F2)
  (2) to95(8)=-1.86
                                                     = (0,55-0,6) IZ0.025 0,55x0,45 + 0,6x0,4
   (3) × 0,05(12) =2/026
                                                     --0,05 ± 1,96 ×0,07
   (4) X'a(15)=7.2 d=?
                                                   21. (1) p = 105 = 0.42
         d =0,95
(5) x20,95(10) = 3,940
                                                            0,42 ± Z0,05 / 0,42x0,58
   (6) Fo.05 (5,8) = 3.69
                                                            =0.42 ± 0.05 = (0.37, 0.47)
     (1) F_{0.95}(6,7) = \frac{1}{F_{0.05}(7.6)} = \frac{1}{4.21} = 0.238
                                                          (2) (p=0.3, e=0.03, 1-a=0.95
     (8) Fa (6,6) = 4.28 d=0.05
                                                                  e= Jnxz
     7. (1) \hat{p} = \frac{45}{80} = 0.56
                                                                  h=(\frac{z}{e})^2 \times \hat{p} \times (1-\hat{p})
                                                                  h = \left(\frac{1.96}{0.03}\right)^2 \times 0.3 \times 0.7 = 896.37
     (2) Za (p(1-p)) = Z0,075 (0,5 bro,44
                                                           D p=0,42
           = 1.96 x 0.06 = 0,12
                                                                  N = \left(\frac{1.96}{0.03}\right)^{2} \times 0.42 \times 0.58 = 1039.79
(3) pt Za Jp(1-p)

= 0.56 ± Z0.05 J1.56×0.04
                                                           9 p=0.5
                                                                 n = (\frac{1.96}{0.03})^{\frac{1}{2}} 0.5 \times 0.5 = 1067.11
                                                                                          = 1068
 = 0.56I1.645x0,06
         = 0.56 to.1 = (0.46,0.66)
```

2.
$$e = \frac{\sigma}{\sqrt{n}} \times \frac{\pi}{2}$$

(1) $\sigma = 3$, $e = 0.5$, $1 - \alpha = 0.95$
 $h = (\frac{3}{0.5})^2 \times 1.96^2 = 138.3 \div 139$

(2) $\sigma = 0.2$, $e = 0.03$, $1 - \alpha = 0.9$
 $h = (\frac{0.1}{0.03})^2 \times 1.645^2 = 120.27 \div 121$

(3) $\sigma = 0.05$, $\sigma = 0.02$, $\sigma = 0.98$
 $\sigma = (\frac{0.05}{0.02})^2 \times 2.326^2 = 33.8 \div 34$

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