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28 Maret 2025

```
19) P(3 = x = 6) = P(x = 3) + P(x = 4) + P(x = 5) + P(x = 6)
                   = {\binom{15}{2}} {\binom{0.25}{3}} {\binom{0.75}{2}}^2 + {\binom{15}{4}} {\binom{0.25}{3}}^4 {\binom{0.75}{1}}^4 + {\binom{15}{5}} {\binom{0.25}{5}}^5 {\binom{0.25}{5}}^6 + {\binom{15}{6}} {\binom{0.25}{5}}^6
b.) P(x ± 3) = P(x = 0) + P(x = 1) + P(x = 2) + P(x = 3)
              = {\binom{15}{0}} {(0.25)}^{0} {(0.75)}^{15} + {\binom{15}{1}} {(0.25)}^{1} {(0.25)}^{17} + {\binom{15}{2}} {(0.25)}^{2} {(0.25)}^{2} {(0.25)}^{3} + {\binom{15}{3}} {(0.25)}^{3} {(0.25)}^{3}
              = 0-4613
              = 1 - (P(x=0) + P(x=1) + P(x=2) + P(x=3) + P(x=4) + P(x=5))
C.)P(x75)=1-P(x =5)
              = 0-1484
                                                  6 dokter dan I perawot
a.) 4 do hter dan 3 perawat
                                                  c(10.6) x c(5.1)= 10! x 5!
    C(10.41 x C(5-3) = 10! x 5!
                                                                    6! (10-6)! 1!(C-1)!
                         4! (10-4)! 2!(5-3)!
                                                                                          c(15.7) = 15!
                                                                   = 1050
                                                                                                    7:(15-7)!
                                                  7 dobler dan o peravat
                        = 2100
                                                                                                  = 6435
     5 do hter dan 2 perawat
                                                  c (10.7) x (15.0) = 10! × 1
    c(10.5) x (5.2) = 10! x 5!
                                                                    7! (10-7)!
                         5!(10-5)! 2!(5-2)!
                                                                   = 120
                       = 2520
     P=2100+2520+1050+120=0.9
                     6435
                                                P = 600 + 2100 + 2520 = 0.81,
b.) 3 dobter dan 4 perawat
                                                            6435
   c(10.3) x c(5.4) = 10! x 5!
                      3! (10-3)! 4! (5-4)!
                   = 600
```

$$(-1)^{2} = 1 - \frac{120}{6435} = 0 - 98_{11}$$

3.)
$$s$$
 spade.

2 Heart

2 Heart

2 Diamond

3 (145)

((13.5) = $\frac{13!}{s!(13-5)!}$ = 1287

 $\frac{13!}{s!(13-2)!}$ = 78 ((13.3) = $\frac{13!}{3!(13-3)!}$ = 286

 $\frac{3!(13-3)!}{3!(13-3)!}$

$$19.) P(x = 7) = {\binom{6}{2}} {\binom{\frac{1}{6}}{6}}^3 \times {\binom{\frac{5}{6}}{6}}^9$$

$$= 15 \times \frac{1}{216} \times \frac{625}{1236}$$

$$=0.0:35$$
 $=0.0:35$
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Sa)
$$P(x=5) = e^{-3} \frac{3}{3} \frac{5}{5!}$$

$$= 0.0498 \times 243$$

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(.)
$$P(X \ge 1) = 1 - P(X = 0)$$

= $1 - 0.0498$
= 0.9502 ,
d.) $P(X = 0) = 0.0498$