7.6 #5

Solve
$$\frac{1}{\sqrt{2}} = 0.2 p(1-p)$$
 $p(0) = 0.1$
 $p(0) = 0.1$

Step 3 Integrate

LHS
$$\frac{1}{N} \left[\int_{P}^{dP} + \int_{N-P}^{dP} \right]$$

= $\frac{1}{N} \left[\int_{N-P}^{P} + \int_{N-P}^{N-P} \right]$

RHS $\int_{P}^{P} \int_{N-P}^{N-P} = k + C$

LHS = RHS

 $\frac{1}{N} \left[\int_{N-P}^{P} \right] = k + C$

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Back to Step 4

$$\frac{?}{N-p} = \frac{P_{\bullet}}{N-P_{\bullet}} e^{Nkt}$$

$$P = \frac{P_{\bullet}}{N-P_{\bullet}} e^{Nkt} (N-p)$$

$$P = \frac{P_{\bullet}}{N-P_{\bullet}} e^{Nkt} = \frac{P_{\bullet}}{N-P_{\bullet}} N e^{Nkt}$$

$$P = \frac{\binom{P_{\bullet}}{N-P_{\bullet}} e^{Nkt}}{\binom{N-P_{\bullet}}{N-P_{\bullet}} e^{Nkt}} (c.14d)$$
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