$$\begin{vmatrix} > dexp \coloneqq 0.0004 \cdot P^2(t) - 0.06 \cdot P(t) \\ dexp \coloneqq 0.0004 P(t)^2 - 0.06 P(t) \end{vmatrix}$$

$$> dexp \coloneqq diff (P(t), t) = dexp \\ ddexp \coloneqq \frac{d}{dt} P(t) = 0.0004 P(t)^2 - 0.06 P(t) \end{aligned}$$

$$> population 200 \coloneqq dsolve(\{ddexp, P(0) = 200\}, P(t)) \\ population 200 \coloneqq P(t) = -\frac{600}{\frac{3t}{5^0}}$$

$$> population 100 \coloneqq dsolve(\{ddexp, P(0) = 100\}, P(t)) \\ population 100 \coloneqq P(t) = \frac{300}{\frac{3t}{2}}$$

$$> T \coloneqq 23$$

$$> evalf \left(-\frac{600}{\frac{3T}{2}} \right)$$

$$> t = 23$$

$$> evalf \left(-\frac{600}{\frac{3T}{2}} \right)$$

$$> t = 20$$

$$> evalf \left(-\frac{300}{\frac{3T}{2}} \right)$$

$$> t = 20$$

$$> evalf \left(-\frac{600}{\frac{3T}{2}} \right)$$

$$> t = 20$$

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$$> t = 20$$

