

Chapter 3

Design of Water-Distribution Systems

3.1. (a) For geometric growth:

$$\frac{dP}{dt} = k_1 P$$

$$\int \frac{dP}{P} = \int k_1 dt \quad \rightarrow \ln P = k_1 t + C$$

Which gives

$$\boxed{P = P_0 e^{k_1 t}}$$

(b) For arithmetic growth:

$$\frac{dP}{dt} = k_2$$

$$\int dP = \int k_2 dt \quad \rightarrow \boxed{P = k_2 t + P_0}$$

(c) For declining growth:

$$\frac{dP}{dt} = k_3 (P_{\text{sat}} - P)$$

$$\int \frac{dP}{P_{\text{sat}} - P} = \int k_3 dt \quad \rightarrow \ln(P_{\text{sat}} - P) = -k_3 t - C'$$

which gives

$$\boxed{P = P_{\text{sat}} - C e^{-k_3 t}}$$

where $C = e^{-C'}$.

3.2. (a) By graphical extension

$$\boxed{P_{2000} = 100,000}$$

(b) For arithmetic growth:

$$P = kt + P_0$$

where

$$k = \frac{P_{2000} - P_{1990}}{10} = \frac{61000 - 52000}{10} = 900$$

Therefore

$$P_{2000} = 900t + P_{1990} = 900(40) + 61000 = \boxed{97,000}$$

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