

1- a) $Y_t = (\frac{1}{5})^t y_0$

b)
$$Y_t = (2)^t \cdot y_0 - 4$$

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 c) $Y_t = (2)^t y_0 + (-3 - 3t)$

d)
$$Y_t = (-2)^t y_0 + (-\frac{1}{9} + \frac{1}{3}t)$$
 e) $Y_t = (-5)^t y_0 + (\frac{1}{9} + \frac{1}{3}t)$ f) $Y_t = (-5)^t y_0 + (\frac{11}{18} + \frac{1}{3}t)$

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2- Soluciones Generales:

a)
$$Y_t = (3)^t \cdot y_0 + \frac{1}{2}$$

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$$Y_t = (3)^t \cdot y_0 + \frac{1}{2}$$
 b) $Y_t = (-\frac{1}{2})^t \cdot y_0 - \frac{2}{3}$ c) $Y_t = (\frac{3}{8})^t \cdot y_0 + \frac{1}{10}$

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d)
$$Y_t = (-\frac{2}{7})^t . y_0 + \frac{7}{9}$$
 e) $Y_t = (3)^t . y_0 + 1$

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$$_{3-a)}Y_{t}=C_{1}.3^{t}+C_{2}.2^{t}$$

b)
$$Y_t = C_1 + C_2 \cdot (-1)t$$

_{3-a)}
$$Y_t = C_1.3^t + C_2.2^t$$
 _{b)} $Y_t = C_1 + C_2.(-1)t$ _{c)} $Y_t = C_1.(\frac{4+\sqrt{12}}{2})^t + C_2.(\frac{4-\sqrt{12}}{2})^t$

d)
$$Y_t = C_1 + C_2 \cdot t + \frac{5}{2} t^2$$

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$$Y_t = C_1.3^t + C_2.2^t +$$

d)
$$Y_t = C_1 + C_2 \cdot t + \frac{5}{2} t^2$$
 e) $Y_t = C_1 \cdot 3^t + C_2 \cdot 2^t + 5$ f) $Y_t = C_1 + C_2 \cdot t + \frac{4}{3} t^2 + \frac{11}{9} t^3$

g)
$$Y_t = C_1 + C_2 \cdot (-1)^t + \frac{4}{3}t - \frac{1}{2}t^2 + \frac{1}{6}t^3$$

h)
$$Y_t = 6^t y_0 - \frac{5}{8} 2^t$$