

$$\frac{V(s)}{V_c(s)} = \frac{ab}{s+a}$$

$$V_c(s) = \frac{300}{s}$$

$$V(s) = V_c(s) \cdot \frac{ab}{s+a}$$

$$V(s) = 300 \cdot \frac{ab}{s(s+a)}$$

$$V(s) = 300ab \cdot \frac{1}{s(s+a)}$$

$$V(t) = 300ab \cdot \frac{1}{a} (1 - e^{-at})$$

$$= 300b (1 - e^{-at})$$

Left:

$$a = 12.96$$

$$b = 0.003352$$

Right:

$$a = 13.19$$

$$b = 0.003267$$