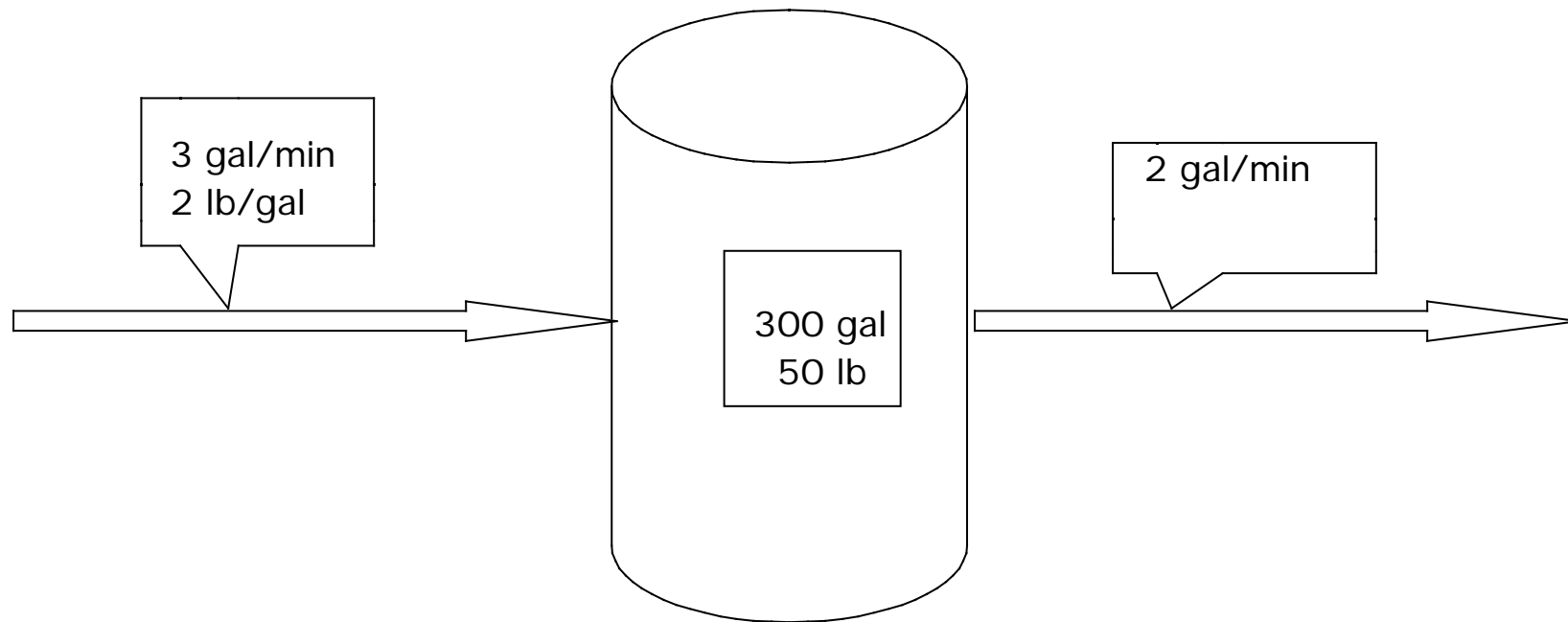


Z.C.1.3.10.



$A(t)$ är mängden salt i tanken vid tiden t i pounds.

$$\frac{dA}{dt} \text{ lb/min} = 3 \text{ gal/min} * 2 \text{ lb/gal} - 2 \text{ gal/min} \frac{A(t)}{300 + t(3 - 2)} \text{ lb/gal}$$

$$\frac{dA}{dt} + 2 \frac{A(t)}{300 + t} = 6$$

$$A(0) = 50$$