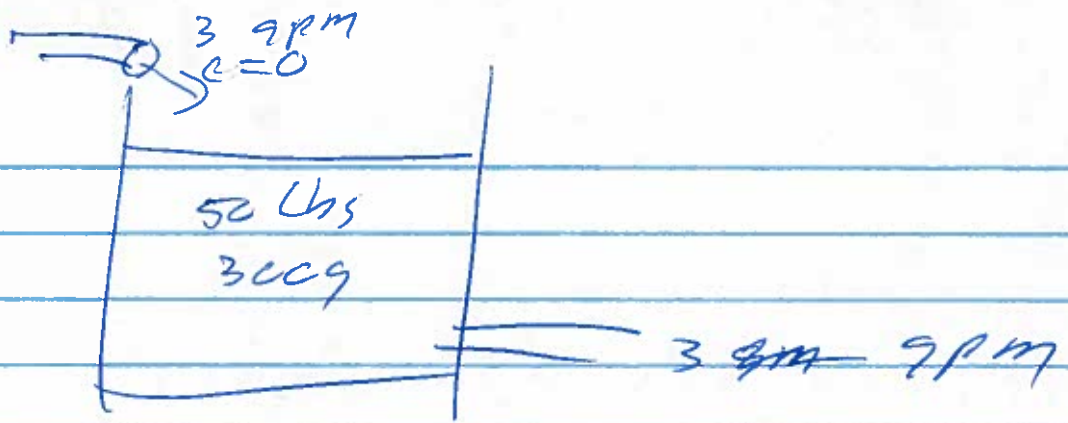


1-3

9



$$c(t)$$

$$v = 300 \text{ g}$$

$$A(t) = 300 c(t) \text{ lbs}$$

$$A'(t) = 300 c'(t)$$

$$c(0) = 50/300 = \frac{1}{6} \text{ lbs/g}$$

$$\frac{d}{dt} \{ 300 c(t) \} = 0(3) - 3 c(t)$$

$$300 c'(t) = -3 c(t)$$

$$c(0) = \frac{1}{6}$$

$$A'(t) = -3 A(t) / 300$$

$$A(0) = 50$$