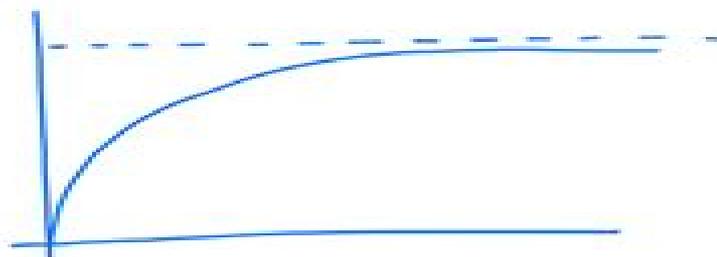


Question 6

(a)



(b) As time continues to pass, the amount of medication in the patient is approaching 12 mg.

(c) $\frac{dy}{dt} = \frac{12-y}{3}$ $A(0) = 0$

$$\int \frac{dy}{12-y} = \int \frac{1}{3} dt$$

$$-\ln|12-y| = \frac{1}{3}t + C$$

$$-\ln|12| = C$$

$$-\ln|12-y| = \frac{1}{3}t - \ln(12)$$

$$\ln|12-y| = -\frac{1}{3}t + \ln(12)$$

$$\pm 12e^{-1/3t} = 12-y$$

$$y = 12 \mp 12e^{-1/3t}$$

since $A(0) = 0$

$$A(t) = 12 - 12e^{-1/3t}$$

d) $\frac{dy}{dt} = 3 - \frac{y}{t+2}$

$$\frac{d^2y}{dt^2} = - \left[\frac{(t+2)\left(\frac{dy}{dt}\right) - y}{(t+2)^2} \right]$$

At $(1, 2.5)$

$$\frac{dy}{dt} = 3 - \frac{2.5}{3}$$

$$\frac{d^2y}{dt^2} = - \left[\frac{3\left(3 - \frac{2.5}{3}\right) - 2.5}{3^2} \right]$$

$$\frac{d^2y}{dt^2} < 0$$

The rate of change of the amount of medication is decreasing because

$$\frac{d^2y}{dt^2} < 0 \text{ at the point } (1, 2.5)$$

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