

26.(a) $R = 40e^{-0.2t}$

(b) $40 + 40e^{-0.2(1)} + 40e^{-0.2(2)} + \dots + 40e^{-0.2(59)} = \frac{40(1 - e^{-0.2(60)})}{1 - e^{-0.2}} \approx 220.66487 \text{ grams}$

(c) $40 + 40e^{-0.2(1)} + 40e^{-0.2(2)} + \dots = \frac{40}{1 - e^{-0.2}} \approx 220.66622 \text{ grams}$