

P #18

Ch 29 - pg 928

$$t_{1/2} = 8.04 \text{ days}$$

$$R_0 = 6.40 \text{ mCi}$$

$$t = \frac{40.2 \text{ days}}{8.04 \text{ days}} = 5 \text{ half-lives}$$

$$R = 6.40 \text{ mCi} \cdot \left(\frac{1}{2}\right)^5$$

$$R = .20 \text{ mCi}$$