$$\frac{(\ln \lambda)(\lambda_{\frac{1}{2}})}{5} = \frac{6}{6} \frac{3}{3}$$

$$\frac{3}{5} \ln 2 = e^{\frac{1-10}{3}} \div 2^{\frac{1}{5}}$$

So, popin is at max. 38.2 min after drug.

(b)
$$2^{\frac{1}{5}} = e^{\frac{1-60}{3}}$$
So, after

 $\frac{1}{5} \ln 2 = \frac{1}{3} - 20$
 $\frac{42.7 \text{ min}}{42.7 \text{ min}}$
 $\frac{1}{5} \ln 2 - \frac{1}{3} = -20$
 $\frac{1}{5} \ln 2 - \frac{1}{3} = -20$