## **Kinetics II Quiz**

88

ıme:

Dibbs

May I post your solution?

[V] Yes

[ ] No

[ ] Yes, but redact my name

Consider the reaction:

 $A \rightarrow I$ 

The initial concentration of A is  $[A]_0 = 0.561$  M. You determine the first three, successive half-life times of A to be 483, 483, and 483 seconds.

How long will it take for the concentration of A to decrease to 0.241 M?

$$483 = \frac{h(8)}{k} = \frac{100}{100} \text{ order } \frac{100}{100} \text{ half-life is constact over time}$$

$$2h(A)_{t} = -kt + 2h(A)_{0}$$

$$2h(0.141) = -(0.001435) t + 2h(.561)$$

$$4 = 589 \text{ seconds}$$

## **Kinetics II Quiz**

143

Y Name: KAPISSA MCCRIGHT

May I post your solution?



[ ] No

[ ] Yes, but redact my name

Consider the reaction:

 $A \rightarrow B$ 

The initial concentration of A is  $[A]_0 = 0.561$  M. You determine the first three, successive half-life times of A to be 483, 483, and 483 seconds.

How long will it take for the concentration of A to decrease to 0.241 M?

$$In(.241) = -.0014t + In(.561)$$