Rate and Reactions Session 2

Transition State	Half-Life	True
Activation Energy	Slope	False

- 1. half-life
- 2. False
- 3. Supe
- 4. transition state
- 5. trut
- 6. octivation energy

- 1. The amount of time it takes for ½ of a reactant to be used up in a chemical reaction
- 2. Temperature will affect the reactants concentration in a reaction
- 3. Your rate constant is also the _____ of a graph
- 4. The organization of atoms at the highest energy state
- 5. The rate constant doubles (approx.) with every 10 degree Celsius rise
- 6. The minimum energy required for a reaction to take place

1. Write the second order integrated rate law:

2. Write the first order integrated rate law:

3. The reaction $2A \rightarrow B$ has a rate constant of $2.8 \times 10^{-2} \text{ s}^{-1}$. How long will it take for A to decrease from 0.96 M to 0.18 M?

reaction
$$2A \rightarrow B$$
 has a rate constant of $2.8 \times 10^{-2} \text{ s}^{-1}$. How long will it take for A to ease from 0.96 M to 0.18 M ?

$$|A = -|A = -|A| = -|$$