The decomposition of a compound takes 10 hours to complete and is second order. If the final concentration is 0.02 M and the rate is 1.8, what are the initial concentration and the half life for the reaction.

## Solutin:

- 1. Order of the reaction is second, so we can schematically represent our reaction as  $A + B \rightarrow P$  and assume that initial concentrations ware the same.
- 2. Now we found the initial concentration by this formula:



3. And the half life for the reaction:

Answer:

*M*, <sub>1/2</sub>

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