

- In the reaction of  $\text{Cl}_2$  with  $\text{Br}_2$  in  $\text{CCl}_4$  solution,  $\text{BrCl}$  forms according to the equation:



With initial concentrations of  $[\text{Br}_2] = 0.6 \text{ M}$ ,  $[\text{Cl}_2] = 0.4 \text{ M}$  and  $[\text{BrCl}] = 0.0 \text{ M}$ , which of the following concentration versus time graphs represents this reaction? Explain qualitatively why you rejected each of the other three graphs.

