Kinetics I Quiz   **Name:** _____

Consider the following rate data for the reaction: **A + B → C**

Experiment	$[A]_0$ (M)	$[B]_0$ (M)	Initial Rate (M/s)
1	0.100	0.200	0.001762
2	0.100	0.400	0.003524
3	0.400	0.200	0.001762

Determine the value of the rate constant (k) for this reaction, including the units.