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•	Consider the results of	the following set of experiments studying the rate of th	ıe
	chemical reaction:	$2A + B \rightarrow 3C + D$	

Experiment #	initial [A] / M	initial [B] / M	Rate / M hr ⁻¹	
1	0.240	0.120	2.00	
2	2 0.120		0.500	
3	0.240	0.060	1.00	

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Write	the	rate	law	expression.

Rate =

Calculate the rate constant, k, with units.

k =

What is the rate of the reaction when [A] is 0.0140 M and [B] is 1.35 M?

Rate =