

Participation Assignment

CHEM 1100-General Chemistry II

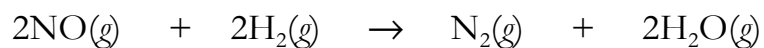
Name:

#4

Section: 32, TR

Due Date: Tuesday 10/16/2018

1. At 1280 °C, the following data was collected for the reaction between nitrogen monoxide and hydrogen gases. Determine the rate law and calculate the rate constant:



Trial	Initial [NO]	Initial [H ₂]	Initial Rate M/s
1	5.0×10^{-3}	2.0×10^{-3}	1.3×10^{-5}
2	1.00×10^{-2}	2.0×10^{-3}	5.2×10^{-5}
3	1.00×10^{-2}	4.0×10^{-3}	1.0×10^{-4}