

Rates for individual reactants

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$$v = 5 \times 10^{-3}/4 = 1.25 \times 10^{-3} \text{ M/s}$$

$$d[\text{P}_4]/dt = 1.25 \times 10^{-3} \text{ M/s}$$

$$d[\text{H}_2]/dt = 7.5 \times 10^{-3} \text{ M/s}$$