General Chemistry Mr. MacGillivray Quiz #34: Kinetics

How would each of the following changes affect the rate of a chemical reaction?

- 1. Adding a catalyst INCREASE DECREASE
 - 2. Taking one of the powdered reactants and forming it into a lump

INCREASE DEC	REASE
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3. Increasing the concentrations of the reactants

INCREASE

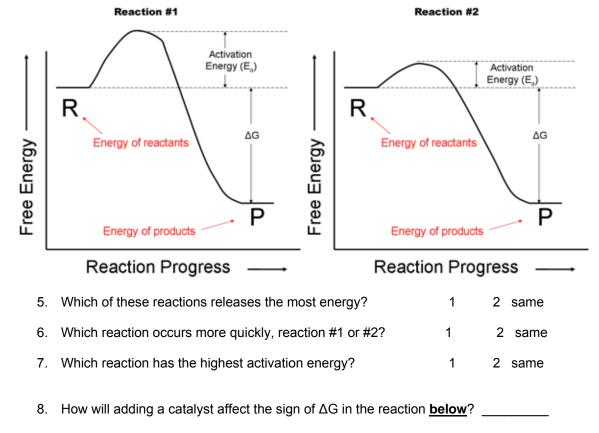
DECREASE

4. Decreasing the temperature

INCREASE

DECREASE

Consider the energy diagrams below:



 $X \rightarrow Y$ $\Delta G^{\circ} = +45.0 \text{ kJ/mol}$

- (a) It will change it from negative to positive
- (b) It will change it from positive to negative
- (c) It will have no effect