2. Sulfur can be obtained from hydrogen sulfide found in natural gas according to the equation below.

$$2 H_2S(g) + SO_2(g) \rightarrow 2 H_2O(g) + 3 S(g)$$
 $\Delta H > 0$

Which one of the following changes will initially decrease the rate at which sulfur is produced?

- (a) reduce the partial pressure of the hydrogen sulfide (H₂S(g))
- (b) increase the partial pressure of sulfur dioxide (SO₂(g))
- (c) add a metal catalyst to the reaction vessel
- (d) heating the reaction vessel