

19 What is the oxidation number of chromium in the $\text{Cr}_2\text{O}_7^{2-}$ ion?

- A** -2 **B** -1 **C** +6 **D** +12

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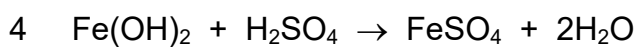
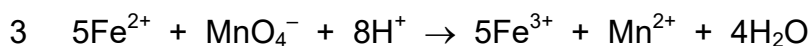
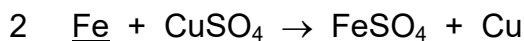
18 Zinc reacts with dilute hydrochloric acid.

Which statement about the particles in the reaction is correct?

- A** Increasing the concentration of dilute hydrochloric acid increases the collision rate but has **no** effect on the activation energy.
- B** Increasing the concentration of dilute hydrochloric acid increases the collision rate and the activation energy.
- C** Increasing the temperature of the reaction increases the activation energy.
- D** Increasing the temperature of the reaction causes all collisions to lead to a reaction.

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17 Which equations show the underlined species acting as a reducing agent?



- A** 1 and 2 **B** 1 and 4 **C** 2 and 3 **D** 3 and 4