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$$\text{Mn}^{7+} + 3\text{e}^- + 2\text{H}_2\text{O} \rightarrow \text{Mn}^{4+} + 4\text{OH}^-$$

$$\text{Mn}^{7+} + \text{e}^- + \text{H}^+ \rightarrow \text{Mn}^{6+}$$
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