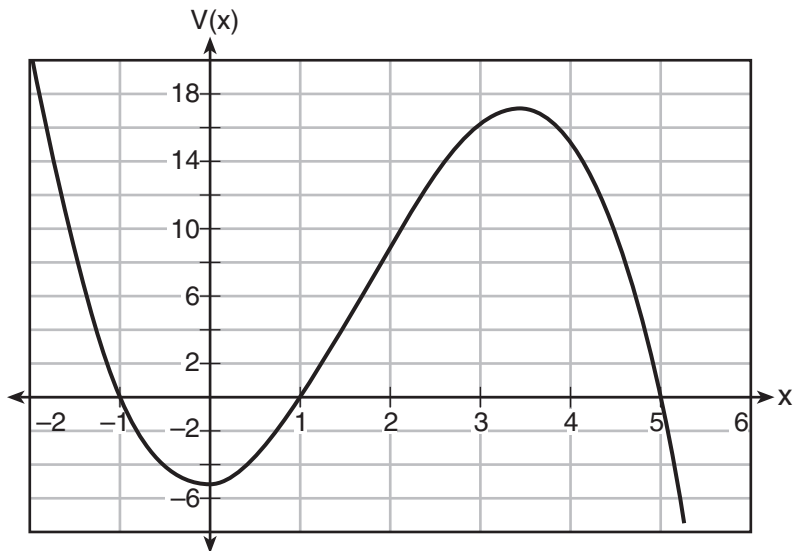A cardboard box manufacturing company is building boxes with length represented by $x + 1$, width by $5 - x$, and height by $x - 1$. The volume of the box is modeled by the function below.

Over which interval is the volume of the box changing at the fastest average rate?

(1) [1,2]   (3) [1,5]

(2) [1,3.5]   (4) [0,3.5]