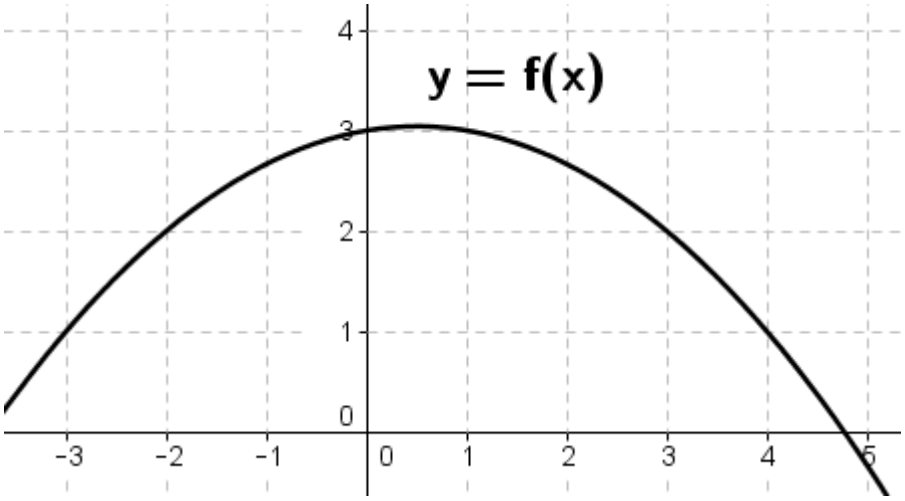
Some problems discussed in video (2)

0:00 **1. Divide the interval** $[-2,3]$ **into five subintervals of equal length. Then approximate the area under the curve** $y=f(x)$ **on** $[-2,3]$ **sketching the corresponding rectangles using left endpoints of each subinterval.**



11: 30 **2. Repeat the previous question #1 using right end points of each subinterval.**

17:00 **3. Divide the interval** $[0,4]$ **into four subintervals of equal length. Then approximate the area under the curve**

$$f(x) = \sqrt{x}$$

on $[0,4]$ **sketching the corresponding rectangles using (a) right-end points, and (b) mid-points of each subinterval.**