- 7. [10 points] Maize and Blue Jewelry Company is trying to decide on a design for their signature aMaize-ing bracelet. There are two possible designs: type W and type J. The company has done research and the two bracelet designs are equally pleasing to customers. The design for both rings starts with the function $C(x) = \cos\left(\frac{\pi}{2}x\right)$ where all units are in millimeters. Let R be the region enclosed by the graph of C(x) and the graph of -C(x) for $-1 \le x \le 1$.
 - **a.** [5 points] The type W bracelet is in the shape of the solid formed by rotating R around the line x = 50. Write an integral that gives the volume of the type W bracelet. Include units.

b. [5 points] The type J bracelet is in the shape of the solid formed by rotating R around the line y = -50. Write an integral that gives the volume of the type J bracelet. Include **units**.