SECTION 2.3: VOLUMES OF REVOLUTION USING CYLINDRICAL SHELLS
DAY 2

1. In the space below, write the formula for the Cylindrical Shells Method with accompanying formulas. Assume we are integrating with respect to x.

2. Sketch the region R above the x-axis that is bounded by $y = \sqrt{x+2}$ and $y = x$. We want to determine the volume of the solid obtained by rotating R about the x-axis.

   (a) Set up the integral(s) for the volume assuming you are using the Disk/Washer Method.

(b) Set up the integral(s) for the volume assuming you are using the Shell Method.

(c) Set up the integral(s) for the volume assuming the region is rotated about the line $y = 2$.