Compute the area of the region $R_1$ in the figure for problems 6.2: 19-30 on page 453.

Compute the area of the region $R_2$ in the figure for problems 6.2: 19-30 on page 453.

Compute the area of the region $R_3$ in the figure for problems 6.2: 19-30 on page 453.

Compute the area of the region enclosed by the graphs of $x = 0, x = \pi, y = 1 + \cos(2x)$, and $y = 1 - \cos(2x)$.

Compute the area of the region enclosed by the graphs of $x = 0, y = 1, y = 2$, and $y = \ln(x)$.

Compute the area of the region enclosed by the graphs of $x = 0, x = \pi, y = \cos(2x)$, and $y = \cos(x)$.