Integration Review - Example #1

Determine the area of the region bounded by the function below, the x-axis, and the given lines.

$$y = \frac{1}{x+2},\ x = -1,\ x = 2$$

Integration Review - Example #2

Determine the area of the region bounded by the function below, the y-axis, and the given lines.

$$y = \sqrt{4-x},\quad y = 0,\ y = 2$$

Find the point(s) of intersection of the graphs of these functions.

a.) $y = 3x - 2$ and $y = x^2 - 2x + 4$

b.) $y = 1 - x$ and $y = \sqrt{2x+1}$

Find the point(s) of intersection of the graphs of these functions.

c.) $y = \frac{6}{x} + 3x$ and $y = x^3 - 5x$

Find the point(s) of intersection of the graphs of these functions.

d.) $y = e^x$ and $y = 4x^2 - 3$