MA41G Area under the Curve

Determine the area under the following curves:

    a.) $y = x^2 - 4x + 5$ from $x = -1$ to $x = 3$ Answers

$$\frac{40}{3}$$

    b.) $y = e^{x/2}$ from $x = -3$ to $x = 2$

$$2e - 2e^{-3/2}$$

    c.) $y = 4x$ from $x = 2$ to $x = 3$

10

    d.) $y = \sqrt{x}$ from $x = 0$ to $x = 4$

$$\frac{16}{3}$$