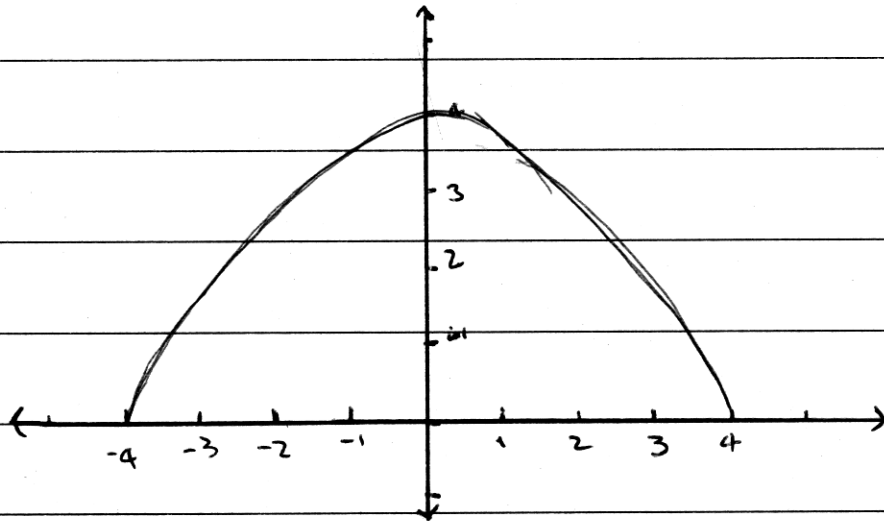




Question 6.

(d)



$$\text{range} = -4 < x < 4.$$

b) i  $y = 3x + 3x - 3$   
=



$$c) V = \pi \int_0^2 \frac{x^4}{4} dx$$
$$= \pi \int_0^2 \frac{x^{5.4}}{5}$$

$$= \pi \left[ \frac{x^{5.4}}{5.4} \right]_0^2$$

$$= \pi \left[ \frac{32}{5.4} \right] - \left[ \frac{0^{5.4}}{5.4} \right]$$

$$= \pi [6.4 \times 4] - [0]$$

$$= \pi [25.6]$$

$$= 80.4 \text{ u}^3$$