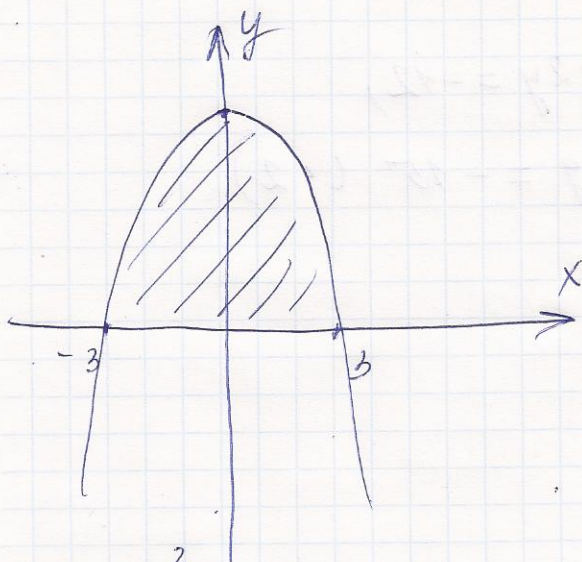




Границы интегрирования

$$9 - x^2 = 0$$

$$x^2 = 9$$

$$x = \pm 3$$

$$\int_{-3}^3 (9 - x^2) dx = \left(9x - \frac{x^3}{3} \right) \Big|_{-3}^3 = \left(9 \cdot 3 - \frac{3^3}{3} \right) - \left(9 \cdot (-3) - \frac{(-3)^3}{3} \right)$$

$$= 27 - 9 + 27 - 9 = 36$$