

$$6. y = x(4-x) = -x^2 + 4x$$

$$x_0 (\text{вершина}) = \frac{-b}{2a} = \frac{-4}{2 \cdot (-1)} = 2$$

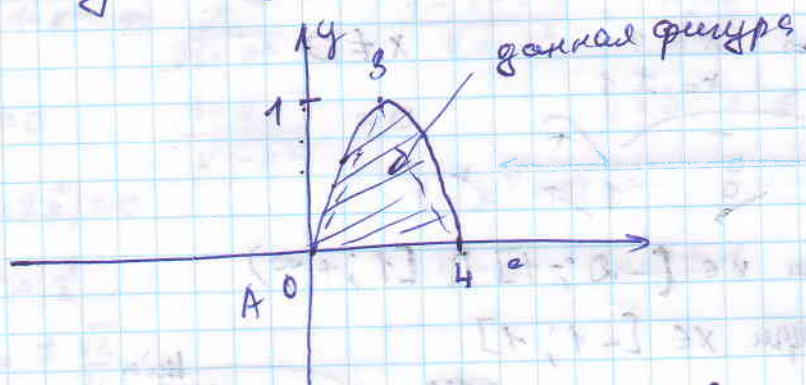
$$y_0 = \frac{-D}{4a} = \frac{-\sqrt{16}}{4 \cdot (-1)} = 1$$

т.к. $a < 0 \Rightarrow$ ветви параболы ~~направл.~~
направл. вниз

пересек с Ox : $0 = x(4-x)$

$$x = 0 \quad x = 4$$

с Oy : $y = 0$



$$S = \frac{4}{3} S_{ABE} = \frac{4}{3} \cdot \frac{1}{2} \cdot 1 \cdot 4 = \frac{8}{3} \text{ см}^2$$