

$$f(x) = 2x^2 - 3x - 5$$

$$c = -5$$

$$\Delta = (-3)^2 - 4 \cdot 2 \cdot (-5)$$

$$= 9 + 40 = 49$$

$$x = \frac{-(-3) + \sqrt{49}}{4}$$

$$= \frac{3+7}{4} = 2,5$$

$$x = \frac{3-7}{4} = -1$$

Sommet: $-\frac{b}{2a} = -\frac{(-3)}{2 \cdot 2} = \frac{3}{4} = 0,75$

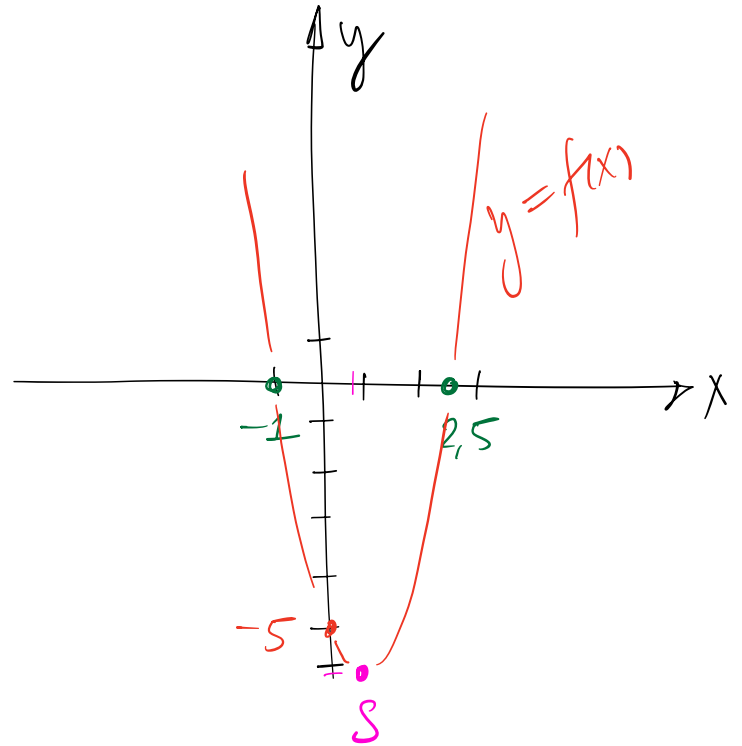
$$f(0,75) = 2 \cdot (0,75)^2 - 3 \cdot 0,75 - 5$$

$$= 2 \cdot 0,5625 - 2,25 - 5$$

$$= 1,15 - 2,25 - 5$$

$$= -6,1$$

$$2x^2 + bx + c = 0 \quad \Delta = b^2 - 4 \cdot a \cdot c$$



$$f(x) = -\frac{1}{2}x^2 + \frac{4}{3}x - 1$$

$$a = -\frac{1}{2} \quad b = \frac{4}{3} \quad c = -1$$

$$= -0,5 \cdot x^2 + 1,3 \cdot x - 1$$

$$\Delta = b^2 - 4 \cdot a \cdot c$$

$$= \left(\frac{4}{3}\right)^2 - 4 \cdot \left(-\frac{1}{2}\right) \cdot (-1)$$

$$= \frac{16}{9} - \frac{4}{2} = \frac{16}{9} - 2$$

$$= \frac{16}{9} - \frac{18}{9} = -\frac{2}{9}$$