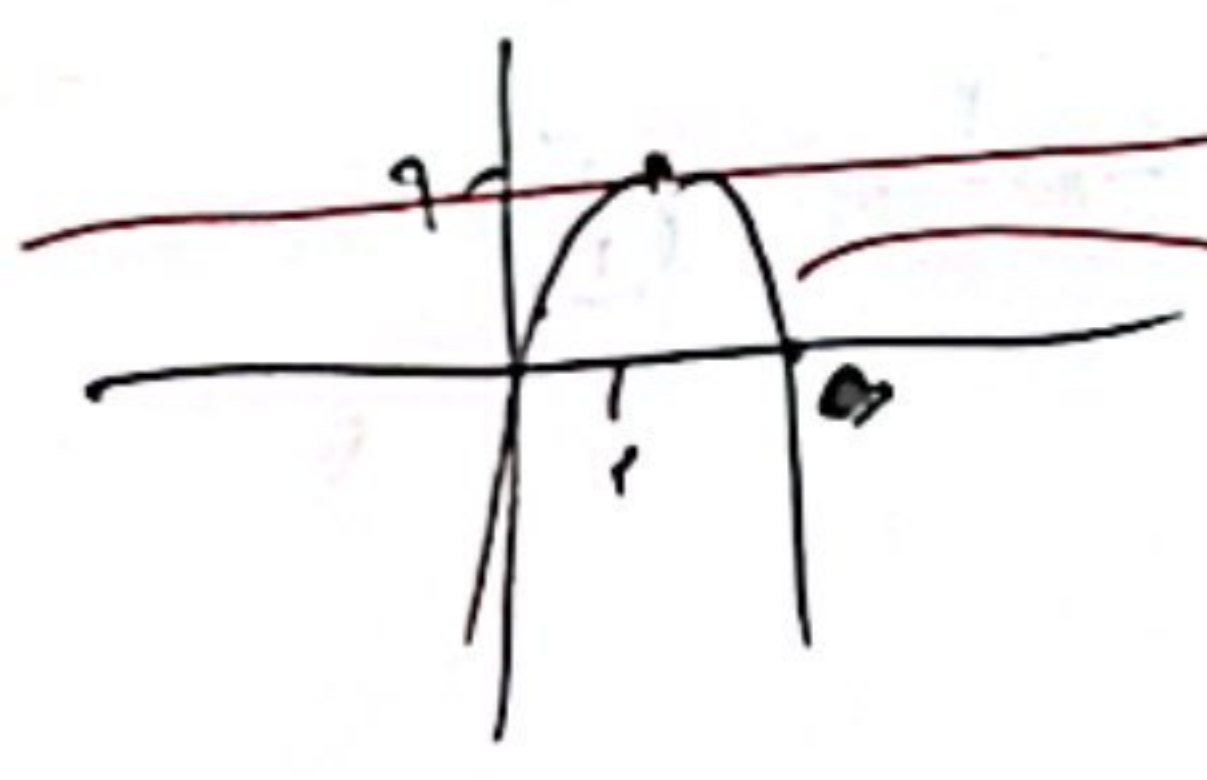


$\frac{-b}{2a} = 2$ $2a = -b$ $-1 - 49 - 1 = a - \frac{5}{2}$ $y = -\frac{1}{2}x^2 + x + 3$
 $\downarrow$
 $x = 1$
 $x = -2$

$25 - 4m^2 > 0$
 $25 > 4m^2$
 $m^2 < \frac{25}{4} \Rightarrow -\frac{5}{2} < m < \frac{5}{2}$
 $-\frac{5}{2} < m < \frac{5}{2}$

$m < 0$ رأس می بالا باشد
 $\Delta > 0$ دو ریشه دارد

$x^2 - 5x + p$
 $s = \frac{3+2}{2} = 2$ $p = \frac{9-0}{9} = \frac{1}{9}$ $x^2 - 2x + \frac{1}{9}$ $(7x^2 - 11x + 4)$



$0 < x < 5$
 می کند

$\frac{-b}{2a} = 2$ $-b = 4a$

$\frac{-\Delta}{2a} = 9$ $4ac - b^2 = 36a$

$a = \text{نسبت } 2 \text{ و } 3 = C$

$20a - 144a^2 = 36a \Rightarrow -144a^2 = 144a \Rightarrow -a = 1$
 $b = 4$ و $a = -1$

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

$\frac{1}{\alpha} + \frac{1}{\beta} = \frac{\alpha + \beta}{\alpha\beta} = \frac{5}{p}$ $s = \frac{V}{\alpha}$ $\frac{V}{\alpha} = \frac{V}{\beta} = \frac{V}{\frac{V}{\alpha}} = \alpha$
 $p = \frac{\beta}{\alpha}$ $\beta > 0$ $\alpha < 0$

$\alpha\beta^2 - V\beta + 1\beta = 0$ $\alpha\beta^2 = -2\beta \Rightarrow \beta = -\frac{2}{\alpha} = \frac{2}{\alpha}$

$x^2 - Vx - \frac{11}{\alpha} = 0 \Rightarrow x^2 - Vx - 11 = 0 \Rightarrow x^2 - Vx - 11 = 0$
 $(t-9)(t+2) < x^2 - 2x$
 $\alpha^2 = 9$ $\alpha = 3$ $\alpha = -3$

$$\frac{-b}{ra} = 1 \quad rac - b^r = 14a \Rightarrow rm^r + r^r m - 14 = r^r m \Rightarrow rm^r - 14 = r^r m \Rightarrow rm^r - r^r m - 14 = 0$$

$$m^r - r^r m - 14 = 0 \Rightarrow \left(\overset{+}{r} \right) x \left(\overset{-}{r} \right) \checkmark$$

اذا $r = 0 \rightarrow$ مني m و r :

$$f(x) = -rm^r + rx + 4 \rightarrow \boxed{x = r = 10}$$

$$\rightarrow x = -1$$

$$\frac{1}{a} + \frac{1}{b} = \frac{5}{p}$$

$$s = r$$

$$p = -1$$

$$\boxed{\frac{r}{-a} = -\frac{1}{r}}$$

$$\frac{rac - b^r}{ra} = 4 \Rightarrow rac - b^r = 14a$$

$$-fb - b^r = -4b \Rightarrow rb = b^r \Rightarrow b = r, a = -\frac{1}{r}, c = f$$

$$\frac{-b}{ra} = r \Rightarrow -b = ra$$

$$f(x) = -\frac{1}{r} x^r + rx + f$$

$$rac - 14a = 1 + \overset{ra^r}{ra^r} + 4a + r = 0 \Rightarrow ra^r - ra - 1 = 0$$

$$\left\{ \begin{array}{l} q = 1 \Rightarrow x^r - 1x + 1 = 0 \quad (m^r - r)(m^r - r) = \textcircled{8} \\ a = -\frac{1}{r} \Rightarrow x^r - \frac{1}{r} x + \frac{r}{r} = 0 \quad \left(m^r - \frac{r}{r}\right)(m^r - r) = \textcircled{\frac{r}{r}} \end{array} \right.$$