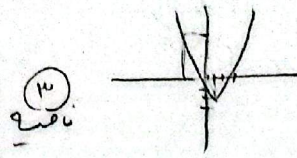
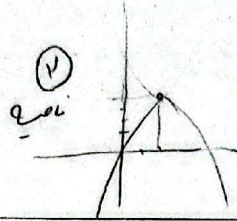


$3x \frac{1}{a} - \frac{1}{3} = -\frac{1}{3}$
 الف) $y = 3m^2 - 2m$
 $\frac{r}{4} = \frac{1}{3} = x(Ext)$
 $-\frac{1}{3} = y(Ext)$



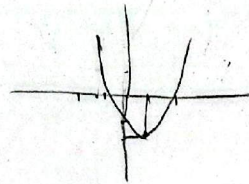
ب) $y = -m^2 + 5m$
 $\frac{-5}{-1} = r = m$
 $y = 2$



1

الف) $2m^2 - 5m + 1$

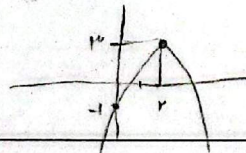
$\frac{1}{5} = \frac{a}{5} = m$ $-\frac{1}{2}$
 $\Delta = 25 - 4(2) = 9$ $\frac{-9}{2} = y$



نوع 1 و 2 و 3
 در نمودار

2

ب) $y = -m^2 + 5m - 1$
 $\frac{-5}{-1} = r = m$
 $m = y$



نوع 1 و 2 و 3
 در نمودار

$m^2 - 2m^3 = 0$ $\Delta = 1 - 4(-3) = 13$

$\alpha + \beta = 1$
 $\alpha\beta = -3$

الف) $\frac{5}{\alpha - \beta} \Rightarrow \frac{1}{\frac{\sqrt{13}}{2} - \frac{-\sqrt{13}}{2}} = \frac{\sqrt{13}}{13}$

ب) $\alpha^3 + \beta^3 = (\alpha + \beta)^3 - 3\alpha\beta(\alpha + \beta) = 10$

ب) $\alpha^2 + \beta^2 = (\alpha + \beta)^2 - 2\alpha\beta$
 $\rightarrow 1 - 2(-3) = 7$

$\alpha^3 - \beta^3 = (\alpha - \beta)^3 + 3\alpha\beta(\alpha - \beta)$
 $13\sqrt{13} - 9\sqrt{13} = 4\sqrt{13}$

3

$\Delta \rightarrow m^2 - am + a < 0$
 $\alpha^2 - 2(a) < 0$
 $\alpha^2 - 2a < 0$

$\Delta = 0$

$y = (m-2)(m^2 - am + a)$
 17

$a = 14$
 $\frac{4 \pm \sqrt{4}}{2} = f > 0$ $\frac{0}{-9-9} +$ $(0, f) \rightarrow a$

4

$3m^2 - 12m - a = 0$ α, β

$r\alpha^2 + \beta^2 - f\alpha = 0$

$\beta^2 + \alpha^2 = 5 - 2P = 14 + \frac{12a}{3} = \frac{f\alpha + 2a}{3}$

$\alpha^2 = \frac{12\alpha + a}{3}$

$m = \frac{-b \pm \sqrt{\Delta}}{2a} = \frac{12 \pm \sqrt{36a}}{6}$ 18, 19

5

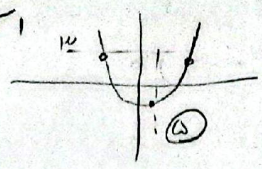
$\frac{12\alpha + a}{3} + \frac{f\alpha + 2a}{3} - f\alpha - 0 = 0$
 $\alpha = -a$

$\frac{a}{3} = \frac{-9}{3} = -3$

$$A \begin{vmatrix} r_0 + r_1 q \\ a - r_1 \end{vmatrix}$$

$\alpha = \mu$
 انحراف بايندري...
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$$B \begin{vmatrix} r_0 + r_1 \\ a - r_1 \end{vmatrix}$$



$$b = a$$

$$b - r = r$$

$$m = -\frac{1}{\lambda}$$

$$y = m(x-a)^r + r \rightarrow -\frac{1}{\lambda}(x-a)^r + r$$

$$y(0) = \frac{1}{\lambda} \rightarrow 1 - \frac{1}{\lambda}$$

$$an^r - a\alpha - b = 0 \quad \alpha, \beta \quad \alpha + \beta = 1$$

$$r_0 \beta^r + r_1 \alpha^r - r_1 \beta = 1 \quad \beta^r = (1 - \alpha)^r$$

$$r_0 (1 - \alpha)^r + r_1 (\alpha^r) - r_0 (1 - \alpha) = 1 \rightarrow 4_0 \alpha^r - 4_0 \alpha + 4 = 0$$

$$|\alpha - \beta| = \sqrt{s^r - r\rho} = \frac{r}{\sqrt{a}} = \frac{r\sqrt{a}}{a}$$

$$s = 1$$

$$p = \frac{1}{r_0}$$

$$\begin{vmatrix} 1 \\ \beta \end{vmatrix} \begin{vmatrix} -a \\ \beta \end{vmatrix} \quad \frac{+b + \epsilon a c}{r a} = +\frac{1}{r} \quad \alpha \alpha + \frac{r}{r} = y$$

$$\frac{a}{r} + \frac{r}{r} = \boxed{\epsilon = y = \beta}$$

$$r b^r - r a c - r a = 0 \quad \frac{r a}{r a} = r$$

$$\frac{b^r}{r a} - \frac{r}{r} = \frac{1}{r} \rightarrow \frac{r a}{r a} = r$$

$$\alpha = \frac{1}{r}$$

$$y = an^r + bn + a = 0 \rightarrow \begin{cases} a + b + \frac{r}{r} = y \\ r \epsilon a - 4b = 0 \\ r_0 a - \alpha b + \frac{r}{r} = y \\ r \epsilon a = 4b = \boxed{b = \epsilon a} \end{cases}$$

$$n^r + 4n + a = 0 \quad \alpha^r + 4\alpha + a = 0 \quad \alpha^r = -4\alpha - a$$

$$-11\alpha - 4a - 12\beta - 2a = r\sqrt{r} + 11a$$

$$\alpha < \beta < 0$$

$$\alpha = -4 + \sqrt{9 - a} \rightarrow \alpha^r = 11 - a - 4\sqrt{9 - a}$$

$$\rightarrow \beta^r = 11 - a - 4\sqrt{9 - a}$$

$$r_0 \alpha^r + r_1 \beta^r = r\sqrt{r} + 11a$$

$$\rightarrow a_0 - a\alpha - 4\sqrt{9 - a} = r\sqrt{r} + 11a \rightarrow a\alpha + 4\sqrt{9 - a} = a + 4\sqrt{9 - a}$$

$$\boxed{\alpha = 1}$$

$$r_0 n^r - (m + \epsilon)n + 1 = 0 \quad \alpha + \beta = \frac{m + \epsilon}{r_0} \quad \alpha \beta = \frac{1}{r_0 a}$$

$$\sqrt{\frac{1}{\alpha}} + \sqrt{\frac{1}{\beta}} = a \rightarrow \frac{1}{\alpha} + \frac{1}{\beta} + r\sqrt{\frac{1}{\alpha\beta}} = r_0 a$$

$$m m^r + r m + r$$

$$-n^r + r m + r = y$$

$$\frac{m + \epsilon}{r_0} \times \frac{r_0}{r_0} + r \sqrt{\frac{r_0}{9}} = r_0 a$$

$$m + \epsilon = r_0 - 11$$

$$\boxed{m = -1}$$

$$\boxed{p = -r}$$