

۲۰

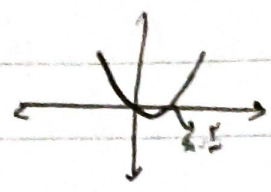
SUBJECT:

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۱) $y = 3x^2 - 2x \rightarrow x(3x - 2) = 0$

مختصات $= (\frac{2}{3}, 0)$

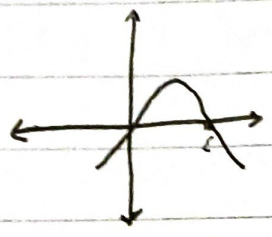


ناحیه سوم

(۲)

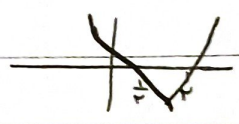
۲) $y = -x^2 + 4x \rightarrow -x(x - 4) = 0$

مختصات $= (2, 4)$



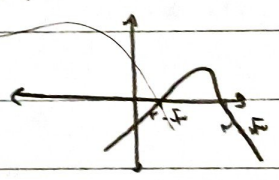
ناحیه دوم

۳) $y = 2x^2 - 5x + 2$
 $x = \frac{5 \pm \sqrt{9}}{4} \Rightarrow x = 2, \frac{1}{2}$
 مختصات $\rightarrow (\frac{1}{2}, 0)$ و $(2, 0)$



۴) $y = -x^2 + 4x - 1$
 $x = \frac{4 \pm \sqrt{12}}{-2} = 2 \pm \sqrt{3}$

مختصات $\rightarrow (2, \frac{\sqrt{3}}{2})$



۱، ۳، ۴

$\frac{\alpha + \beta}{\alpha - \beta} = \frac{1}{\sqrt{13}}$ ✓
 $\alpha^2 + \beta^2 = 5^2 - 2 \cdot 5 \cdot 2 = 1 - (-2) = 3$ ✓

$\alpha^2 + \beta^2 = 5^2 - 2 \cdot 5 \cdot 2 \rightarrow 1 - (-9) = 10$ ✓

$\alpha^2 - \beta^2 = (\alpha - \beta)(\alpha^2 + \beta^2 + \alpha\beta) \rightarrow (\sqrt{13})(5) = 5\sqrt{13}$ ✓

$x^2 - ax + a \Delta < 0 \Rightarrow a^2 - 4a < 0 \Rightarrow a(a - 4) < 0$

$\frac{-1 - \sqrt{5}}{2} < x < \frac{-1 + \sqrt{5}}{2}$

$x^2 - ax + a = (x - 2)^2 = x^2 - 4x + 4 \Rightarrow a = 4$

$(0, 4) \cup \{4\} = (0, 4]$ ✓

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$$ra^r - 1ra - a = 0 \quad a^r - \epsilon a = \frac{p}{r} \quad -a$$

$$a^r + B^r + \underbrace{a^r - \epsilon a}_{-p} = V \quad p = -\frac{p}{r} \quad (r)$$

$$s^r - rp - p = V$$

$$s^r - rp = V$$

$$15 + a = V \quad \rightarrow a = -9 \quad rna^r - 1ra + 9 = n^r - \epsilon n + 9 = \underbrace{(n-3)}_r \underbrace{(n-1)}_1$$

$$\frac{-9}{r} = (-3) \quad \checkmark$$

$$(0 - r_0, a - r), (ra + r, a - r)$$

مهم فرضیات

$$(0, r)$$

$$y = k(n-d)^r + r$$

$$A(9,1) \quad K(1-d)^r + r = 1$$

$$B(1,1) \quad K = -\frac{1}{\lambda}$$

$$\frac{V - ra + ra + r}{r} = d = \frac{-b}{ra}$$

$$b = -1 \cdot a$$

$$ra < V$$

$$a < \frac{V}{r}$$

$$-\frac{1}{\lambda} (1-d)^r + r = -\frac{1}{\lambda}$$

$$a - r > 0$$

$$a > r \Rightarrow a > r \Rightarrow a = r$$

$$|-\frac{1}{\lambda}| = \left(\frac{1}{\lambda}\right) \quad \checkmark$$

$$\epsilon \cdot B^r + r \cdot a^r - r \cdot B = V \quad r \cdot (a^r + B^r) - r \cdot B =$$

$$r \cdot (s^r - rp) + \frac{r \cdot b}{a} = 1V \quad (r) \quad -V$$

$$a \cdot B^r - a \cdot B = b$$

$$r + \frac{\epsilon \cdot b}{a} + \frac{r \cdot b}{a} = 1V$$

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

$$B^r - B = \frac{b}{a}$$

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

$$b = \frac{a}{-ra}$$

$$r \cdot B^r - r \cdot B = \frac{r \cdot b}{a}$$

$$a = -r \cdot b$$

$$(a-B)^r = s^r - rp = 1 - \frac{1}{r} = \frac{r-1}{r} \Rightarrow |a-B| = \sqrt[r]{\frac{r-1}{r}} = \sqrt[r]{\frac{r-1}{r}} \quad \checkmark$$

$(-2, B)$ و $(1, P)$ $\frac{1-d}{r} = -r$ ^{طریق} ^س $(-r, -\frac{1}{r})$ -1
 مرفوعه (2)

$y = K(x+r)^r - \frac{1}{r} \Rightarrow y = \frac{1}{r}(x+r)^r - \frac{1}{r}$

$\frac{r}{r} = K(0+r)^r - \frac{1}{r}$ $B = \frac{1}{r}(1+r)^r - \frac{1}{r} = (E)$ ✓

$r = EK \rightarrow K = \frac{1}{r}$

$0 + 9(0) + a > 0 \Rightarrow a > 0$

$r(a^r + B^r) + a^r = 12\sqrt{r} + 1d$

$r(5^r - 2P) + a^r$

$vr = 9a + 11 + 6\sqrt{9-a} - a = 12\sqrt{r} + 1d$

$9 \cdot 0 + 6\sqrt{9-a} - 2a = 12\sqrt{r} + 1d$

$6\sqrt{9-a} - 2a = 12\sqrt{r} - 2$

$x^2 + 4x + a$

$x = -2 \pm \sqrt{9-a}$

$a = -2 - \sqrt{9-a}$

$u^r = 9 + 9 - a + 6\sqrt{9-a}$

$u^r = 11 + 6\sqrt{9-a} - a$

$2a = 2$

$a = 1$

$6\sqrt{9-a} = 12\sqrt{r}$

$\sqrt{9-a} = 2\sqrt{r}$

$\sqrt{9-a} = \sqrt{1} \rightarrow a = 1$ ✓

$\frac{1}{\sqrt{a}} + \frac{1}{\sqrt{B}} = d$ $\frac{\sqrt{B} + \sqrt{a}}{\sqrt{aB}} = d \Rightarrow \frac{B+a+r\sqrt{aB}}{aB} = rd$ -10

$m+r4 = rd \rightarrow m = -1$

$\frac{m+1E}{r4} + r \times \frac{1}{r}$

$\frac{1}{r4}$

$-x^2 + 3x + 2 = 0$

$P = \frac{r}{-1} = (-r)$ ✓