

# هلا تزلزلنا



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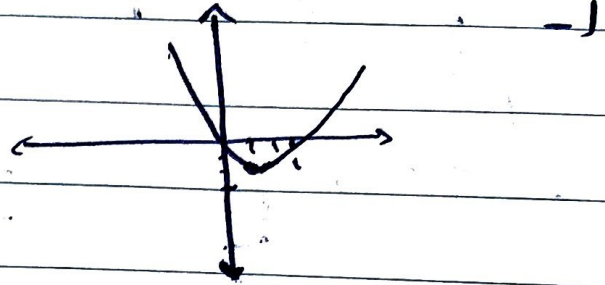
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$$الف) \quad y = 2x^2 - 2x$$

$$\left| \frac{-b}{2a} = \frac{1}{2} \right.$$

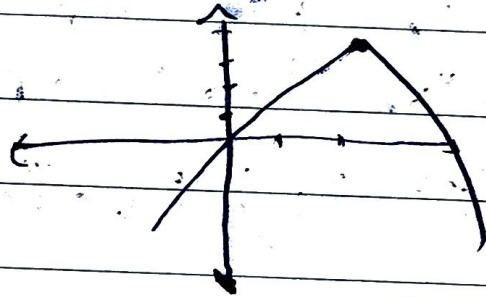
$$\left| 2 \times \frac{1}{2} - \frac{2}{2} = -\frac{1}{2} \right.$$



$$ب) \quad y = -x^2 + 5x$$

$$\left| \frac{-b}{2a} = \frac{-5}{-2} = 2.5 \right.$$

$$\left| 5 \right.$$



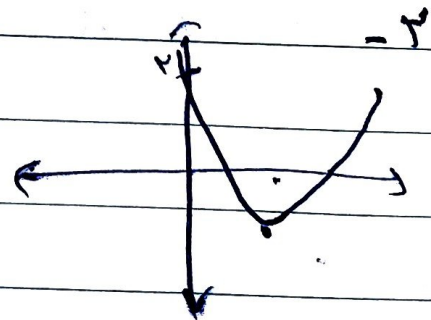
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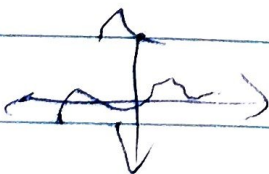
$$ج) \quad y = 2x^2 - 5x + 2$$

$$\left| \frac{-b}{2a} = \frac{5}{4} \right.$$

$$\left| 2 \times \frac{5}{4} - \frac{5}{2} + 2 = \frac{1}{2} \right.$$



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Sa	Su	Mo	Tu	We	Th	Fr
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Subject:

Year:

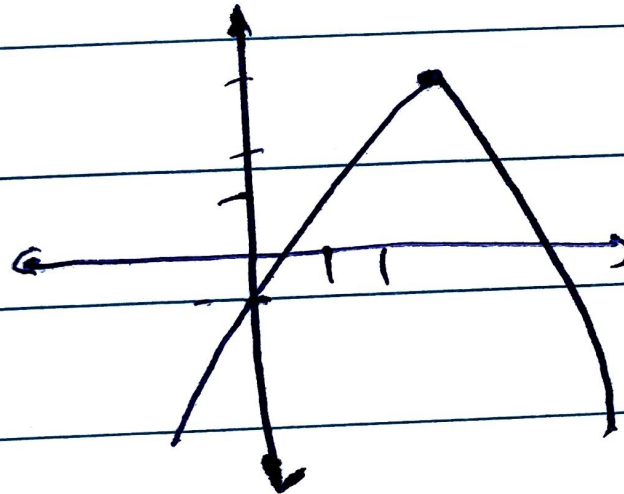
Month:

Date:

$$y = ax^2 + (m-1)$$

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

$x$



$\rho$   $\log$   $m$   $ab$

Subject:

Year.

Month.

Date.



Sa	Su	Mo	Tu	We	Th	Fr
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$$\text{ii) } \frac{-b}{a} = 1 \quad -\sqrt{3}$$

$$\frac{\sqrt{\Delta}}{|a|} = 1 - (1)(-\sqrt{3}) = \sqrt{13}$$

$$\frac{1}{\sqrt{13}}$$

$$\text{ii) } a^2 + b^2 = s^2 - 2P = 1 - 2(-\sqrt{3}) = \sqrt{3}$$

$$P = \frac{c}{a} = -\sqrt{3}$$

$$\text{iii) } a^3 + b^3 = s^3 - 3sP = 1 - 3(1)(-\sqrt{3}) = 1 + 3\sqrt{3}$$

$$\text{iv) } a^3 - b^3 = (a-b)^3 + 3ab(a-b) = 1^3 + 3(-\sqrt{3})(1) = 1 - 3\sqrt{3}$$

$$x^2 - ax + a \quad \Leftrightarrow \text{ii) } x = \sqrt{3} \text{ substitusi } -\epsilon$$

$$b^2 - \epsilon a < 0$$

$$a^2 - \epsilon a < 0 \quad a(a - \epsilon) < 0$$

$$a: (0, \epsilon)$$

$$\begin{array}{c} \epsilon \\ + \quad \phi - \phi + \\ \hline \end{array}$$

Subject:

Year:

Month:

Date:

Sa	Su	Mo	Tu	We	Th	Fr
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$$y = \frac{a}{\lambda} + \beta = \epsilon$$

$$\therefore \beta = \epsilon - \frac{a}{\lambda}$$

-9

$$\lambda x^2 + (\epsilon - \alpha)^2 - \epsilon x = V$$

$$\lambda x^2 - \lambda x + a = 0 \implies \alpha^2 - \epsilon x + \lambda = 0$$

$$(\alpha - 1)(\alpha - \lambda) = 0$$

$$1 \times \lambda = \lambda = \frac{-a}{\lambda}$$

$$\alpha = 1, \lambda$$

$$\alpha = -1$$

$$\frac{-a}{\lambda} = \boxed{-\lambda}$$

$$\text{مورد اول} \implies \frac{V - \lambda a + \lambda a + \lambda}{\lambda} = a$$

-9

$$x = 0 \text{ gives } \begin{bmatrix} a \\ \lambda \end{bmatrix}$$

$$y = a(\lambda - \alpha)^2 + \beta \implies y = a(\lambda - a)^2 + \lambda$$

$$a - \lambda > 0 \implies a < \lambda, \quad V - \lambda a > 0 \implies a < \frac{V}{\lambda}$$

$$\lambda a + \lambda > 0 \implies \lambda a > -\lambda \implies a > -1, \quad a = \lambda$$

$$1 \quad y = a(1 - a)^2 + \lambda \implies \lambda a = -\lambda$$

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

$$\text{مورد اول} = -\frac{1}{\lambda}(0 - a)^2 + \lambda \implies y = \frac{-\lambda a}{\lambda} + \lambda \implies y = -\frac{1}{\lambda}$$

$$\left| -\frac{1}{\lambda} \right| = \boxed{\frac{1}{\lambda}} \text{ Rali}$$

Subject:

Year.

Month.

Date.



Sa	Su	Mo	Tu	We	Th	Fr
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$$S = 1 \rightarrow \beta = 1 - \alpha$$

$$r_0 (1 - \alpha)^r + r_0 \alpha^r - r_0 (1 - \alpha) = 1V$$

$$r_0 + r_0 \alpha^r - 1 \cdot \alpha + r_0 \alpha^r - r_0 + r_0 \alpha = 1V$$

$$r_0 \alpha^r - \alpha + r_0 = 0$$

$$r_0 \alpha^r - r_0 \alpha + 1 = 0$$

$$\Delta = b^2 - 4ac = r_0^2 \quad \alpha = \frac{-b \pm \sqrt{\Delta}}{2a} = \left\{ \begin{array}{l} \frac{-r_0 \pm r_0}{2r_0} \\ \frac{-r_0 \pm r_0}{2r_0} \end{array} \right.$$

$$\frac{-r_0 + r_0}{2r_0} = \frac{-r_0 - r_0}{2r_0} = \frac{-2r_0}{2r_0} = -1 = \alpha$$

$$\alpha = \frac{-a \pm \sqrt{a^2 - 4ac}}{2a} = -1 = \alpha$$

$$\alpha = -1 \quad \left[ \begin{array}{l} -1 \\ -1 \end{array} \right] \rightarrow y = a(x + r)^r - \frac{1}{r}$$

$$\left[ \begin{array}{l} -1 \\ -1 \end{array} \right] \rightarrow \frac{r}{r} = \left[ a(x + r)^r - \frac{1}{r} \right] \rightarrow \frac{r}{r} = \left[ a - \frac{1}{r} \right]$$

$$y = \frac{1}{r} (x + r)^r - \frac{1}{r} \quad \left[ \begin{array}{l} 1 \\ 0 \end{array} \right] \rightarrow \frac{1}{r} (1 + r)^r - \frac{1}{r} = \frac{a}{r} - \frac{1}{r} = \frac{a - 1}{r}$$

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

Subject:

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Sa	Su	Mo	Tu	We	Th	Fr
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$$S = \frac{-b}{a} = -f \quad P = \frac{c}{a} = a$$

$$a = 1$$

$$\Delta = 3f - fa \rightarrow x = \frac{-f \pm \sqrt{3f - fa}}{1} \rightarrow \begin{matrix} -f + \sqrt{3-a} \\ -f - \sqrt{3-a} \end{matrix}$$

$$r = r + r\beta^r + \alpha^r = 1\sqrt{r} + \Lambda a \quad -r - \sqrt{3-a} \Rightarrow \alpha$$

$$r(\alpha^r + \beta^r) + \alpha^r = (1\sqrt{r} + \Lambda a)$$

$$r(3f - fa) + (-r - \sqrt{3-a}) = 1\sqrt{r} + \Lambda a + 1 + 1 \cdot a +$$

$$\sqrt{3-a} \Rightarrow$$

$$1 - a + f\sqrt{3-a} = \Lambda a + 1\sqrt{r}$$

$$a = a \Rightarrow a = 1$$

$$3 - a = 1 \Rightarrow \boxed{a = 1}$$

$$\alpha\beta = \frac{1}{rs}$$

$$\alpha + \beta = \frac{m + 1f}{rs}$$

$$\left( \sqrt{\frac{1}{\alpha}} + \sqrt{\frac{1}{\beta}} \right)^2 = \frac{1}{\alpha} + \frac{1}{\beta} + 2\sqrt{\frac{1}{\alpha\beta}} =$$

$$\frac{\alpha + \beta}{\alpha\beta} + 2\sqrt{\frac{1}{rs}} \rightarrow \frac{m + 1f}{rs} + 2\sqrt{\frac{1}{rs}}$$

$$m + 1f + 2r = \sqrt{m + rs} = A \rightarrow m + rs = rA$$

$$\boxed{m = -1} \quad \frac{c}{a} = \frac{r}{-1} = \boxed{-r}$$

Rali