

Subject:

1A, VA

13/06/2020

Date:

Year:

Month:

Day:

$$y = -x^2 + bx + c$$

$$y = \frac{-\Delta}{2a} = v \rightarrow \frac{-(b^2 - 4ac)}{2a} = \frac{b^2 + 12}{2} = v \quad (1)$$

$$b^2 + 12 = 2v$$

$$b^2 = 14$$

$$b = \pm \sqrt{14}$$

$$x^2 = t$$

$$t^2 - 1t + 1 = 0 \rightarrow \Delta = b^2 - 4ac = 1 - 4(1)(1) = -3 < 0 \quad (2)$$

$$x - x^2 = t \quad t^2 - 1t - 1 = 0 \quad (t+1)(t-2) = 0$$

$$t = -1 \rightarrow x - x^2 = -1 \rightarrow x^2 = 1 \rightarrow x = \pm 1 \quad t = -1, \Delta$$

$$t = 2 \rightarrow x - x^2 = 2 \rightarrow x^2 \neq 1 \quad \Delta$$

$$\alpha + \beta = \frac{-b}{a} \rightarrow \frac{14}{1} = 14$$

$$\begin{cases} \alpha - \beta = -1 \\ \alpha + \beta = 14 \\ \alpha = 13/2 \end{cases}$$

$$f(1)^2 - 14(1) + m = 0$$

$$1 - 14 + m = 0$$

$$m = 13$$

$$\alpha + \beta = 14$$

$$\alpha = 14 - \beta \Rightarrow \alpha = 13$$

$$-\beta = 1 - 14 + \beta$$

$$-\beta = -13 \quad \beta = 13$$

$$1\alpha - \beta = 1$$

$$P = \alpha \cdot \beta = \frac{c}{a} = \frac{m-1}{1} = 0 \rightarrow m = 1$$

$$\beta = -13$$

$$\alpha + \beta = \frac{-b}{a} = \frac{14}{1} = 14$$

$$\alpha + 1\alpha - 14 = 1$$

$$2\alpha = 15 \quad \alpha = 15/2$$

$$\alpha + \beta = 14$$

$$15/2 - 14 = -1/2$$

$$m^2 - 1 = -m \rightarrow \frac{m^2 - 1}{-m} = 1 \rightarrow m^2 + m - 1 = 0$$

$$m^2 - 1 = -m \quad m^2 + m - 1 = 0 \rightarrow m = 1, -2 \quad \Delta = 1 + 4 = 5$$

$$m = -2 \rightarrow 1x^2 + 14x + 1 = 0 \rightarrow \Delta = 14^2 - 4(1)(1) = 192$$

$$m = 1 \rightarrow -x^2 + 14x - 1 = 0 \rightarrow \Delta = 14^2 - 4(1)(1) = 192$$

$$\alpha \cdot \beta^r = \varepsilon \quad \overbrace{\alpha \cdot \beta \cdot \beta}^r = \varepsilon \quad \left\{ \begin{array}{l} \beta = \frac{\varepsilon}{\alpha} = r \end{array} \right. \quad (4)$$

$$r/\beta = \varepsilon \quad \beta = \frac{\varepsilon}{r} \quad \alpha \cdot \beta = r \rightarrow \alpha = \frac{r}{\frac{\varepsilon}{r}} = \frac{r^2}{\varepsilon}$$

$$\left\{ \begin{array}{l} \beta = m \rightarrow \frac{r^2}{\varepsilon} + \frac{\varepsilon}{r} = \frac{\varepsilon r}{1r} \end{array} \right. \quad \alpha^r - \frac{r^2}{1r} + r = \Delta r \checkmark$$

$$S = \alpha + \beta = \alpha + r\alpha = r \quad \beta = r\alpha \quad (1, \checkmark a) \quad (v)$$

$$r\alpha = \varepsilon \quad \boxed{\alpha = 1}$$

$$\beta = r(1) = r \quad \boxed{p = m = r}$$

$$p = r \times 1$$

$$\alpha^r - r\alpha + r = \Delta r \checkmark$$

$$\alpha^r + \frac{1}{\alpha^r} = \left(\alpha + \frac{r}{\alpha} \right) \left(\alpha^r - r + \frac{\varepsilon}{\alpha^r} - r + r \right) \quad (1)$$

$$\frac{\alpha^r + r}{\alpha} = \frac{r\alpha}{\alpha} = r \quad (5) \quad \left(\alpha + \frac{r}{\alpha} \right)^r - r = \varepsilon r$$

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

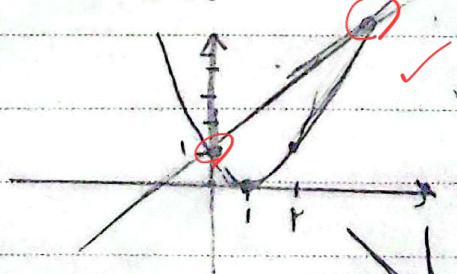
$$\alpha^r + r = r\alpha \quad \alpha^r = r\alpha - r \quad \varepsilon r \times r = r \times 1$$

$$-1 \cdot t^r + \delta \cdot t = 0 \quad t(-1 \cdot t + \delta) = 0 \quad (4)$$

$$t = 0 \quad t = \delta$$

$$-1 \cdot t + \delta = 0 \quad (w_0) \quad -1 \cdot t + \delta = 0 \rightarrow -1 \cdot t = -\delta \quad \boxed{t = \delta}$$

$$y = \frac{-\Delta}{\varepsilon a} = \frac{\lambda(b^r \varepsilon a c)}{\varepsilon} = 4r \cdot \delta$$



$$(n-1)^r = r n + 1$$

$$\alpha^r - r\alpha + 1 \rightarrow \frac{\alpha^r}{\alpha} - r + \frac{1}{\alpha} = r$$

$$n^r + r n = 1(n+1)$$

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

$$\alpha(r + n) = \frac{-b}{r a} = (-1) \quad y = (-1)$$