

Subject: _____

Date: _____

Year: _____

Month: _____

Day: _____

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

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

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

$$b^2 = 14$$

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

$$x^2 = t$$

$$t^2 - 2t + 3 = 0 \rightarrow \Delta = b^2 - 4ac = 2^2 - 4(1)(3) = -10 < 0 \quad (2)$$

$$\begin{aligned} \text{---)} \quad x - x^2 = t \quad t^2 - 2t + 3 = 0 \quad (t+3)(t-0) = 0 \\ t = -3 \rightarrow x - x^2 = -3 \rightarrow x^2 = 3 \rightarrow x = \pm\sqrt{3} \quad t = -3, \Delta \\ t = 0 \rightarrow x - x^2 = 0 \rightarrow x^2 = 1 \end{aligned}$$

$$\alpha + \beta = \frac{-b}{a} \rightarrow \frac{14}{1} = 2$$

$$\begin{aligned} \alpha - \beta &= -2 \\ \alpha + \beta &= 2 \\ \alpha &= 1/\beta \end{aligned}$$

$$f(1) = 14(1) + m = 0$$

$$1 - 14 + m = 0$$

$$\boxed{m = 13}$$

$$\alpha + \beta = 2$$

$$\alpha = 2 - 1 \Rightarrow \boxed{\alpha = 1}$$

$$-\beta = 2 - 2 + \beta$$

$$-\beta = -2 \quad \boxed{\beta = 2}$$

$$x\alpha - \beta = 0$$

$$P = \alpha/\beta = \frac{c}{a} = \frac{m-1}{1} = 0 \rightarrow \boxed{m=1} \quad (3)$$

$$\beta = -k/\alpha$$

$$\alpha + \beta = \frac{-b}{a} = \frac{4}{1} = 4$$

$$\alpha + 2\alpha - 2 = 4$$

$$3\alpha = 6$$

$$\boxed{\alpha = 2}$$

$$\alpha + \beta = 4$$

$$\boxed{\beta = 0}$$

$$\text{like } \rightarrow \frac{m^2 - 2}{a} = 1 \rightarrow \frac{m^2 - 2}{-m} = 1 \quad (4)$$

$$m^2 - 2 = -m$$

$$m^2 + m - 2 = 0$$

$$\rightarrow m = 1, -2 \quad \Delta > 0$$

$$m = -2 \rightarrow 2x^2 + 4x + 2 = 0 \rightarrow \Delta = 16 - 4(2)(2) = 0$$

$$m = 1 \rightarrow -x^2 + 4x - 1 = 0 \rightarrow \Delta = 16 - 4(1)(1) > 0$$

$$\alpha \cdot \beta^r = \varepsilon \quad \sqrt[r]{\alpha \cdot \beta \cdot \beta} = \varepsilon \quad \left\{ \begin{array}{l} \beta = \frac{c}{a} = r \end{array} \right. \quad (4)$$

$$\sqrt[r]{\beta} = \varepsilon \quad \beta = \frac{\varepsilon}{c} \quad \alpha \cdot \beta = r \rightarrow \alpha = \frac{r}{\frac{\varepsilon}{c}} = \frac{r}{\varepsilon} \cdot c$$

$$\left\{ \begin{array}{l} \beta = m \end{array} \right. \rightarrow \frac{r}{\varepsilon} + \frac{\varepsilon}{c} = \frac{\varepsilon c}{r}$$

$$S = \alpha + \beta = \alpha + r\alpha = r \quad \boxed{\beta = r\alpha} \quad (5)$$

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

$$p = \frac{c}{a}$$

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

$$p = r \times 1$$

$$\boxed{m = r}$$

$$\alpha^r + \frac{1}{\alpha^c} = \left(\alpha + \frac{r}{\alpha} \right) \left(\alpha^r - r + \frac{\varepsilon}{\alpha^r} - r + r \right) \quad (6)$$

$$\frac{\alpha^r + r}{\alpha} = \frac{r\alpha}{\alpha} = r$$

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

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

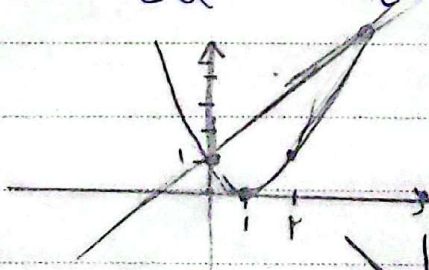
$$\alpha^r + r = r\alpha \quad \alpha^r = r\alpha - r \quad \varepsilon r \times r = r \times 1$$

$$-1 \cdot t^r + \delta \cdot t = 0 \quad t(-1 \cdot t + \delta) = 0 \quad (7)$$

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

$$-1 \cdot t + \delta = 0 \quad (\omega_0) \cdot t + \delta = 0 \rightarrow -1 \cdot t = -\delta \quad \boxed{t = \delta}$$

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



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

$$2r - r n + 1 \rightarrow \frac{2r - r n + 1}{r}$$

$$n^r + r n = 1 n + r$$

$$n^r - r n = 1 - r$$

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

