

$$4u^2 + 4u + 1 = 0 \Rightarrow 4u + 1 = 0 \Rightarrow u = -\frac{1}{4} \Rightarrow u + \beta = -\frac{1}{4} \Rightarrow \beta = -\frac{1}{4} - u = -\frac{1}{4} + \frac{1}{4} = 0$$

$$u + \beta = 0 \Rightarrow \beta = -u \Rightarrow \beta^2 = u^2 \Rightarrow \frac{c}{u} = \frac{u^2}{u} \Rightarrow \beta^2 = u \Rightarrow \beta = \sqrt{u} \Rightarrow \beta = \sqrt{-\frac{1}{4}} = \pm \frac{i}{2}$$

$$\beta = \frac{i}{2} \Rightarrow \epsilon\left(\frac{i}{2}\right) = \frac{u}{\beta} \Rightarrow u = 1$$

$$\beta = -\frac{i}{2} \Rightarrow \epsilon\left(-\frac{i}{2}\right) = \frac{u}{\beta} \Rightarrow u = -1$$

$$\Rightarrow 1 - (-1) = 2$$

$$4u^2 - (m+1)u + 1 = 0 \Rightarrow \frac{1}{u} + \frac{1}{u} = m+1 \Rightarrow \frac{u+u}{u^2} = m+1 \Rightarrow \frac{2u}{u^2} = m+1 \Rightarrow \frac{2}{u} = m+1 \Rightarrow u = \frac{2}{m+1}$$

$$(u + \beta)^2 = \frac{m}{4} \Rightarrow u + \beta + \sqrt{u\beta} = \frac{m}{4} \Rightarrow \sqrt{u\beta} = \frac{m}{4} - u - \beta = \frac{m}{4} - \frac{2}{m+1} - \beta$$

$$\Rightarrow -\frac{b}{a} = \frac{m}{4} \Rightarrow \frac{m+1}{4} = \frac{m}{4} \Rightarrow m+1 = m \Rightarrow m = -1$$

$$\Rightarrow -m^2 + 3m + 2 = 0 \Rightarrow \boxed{\frac{c}{a} = -2}$$

$$4u^2 + 4u - 9u - 2 = 0 \Rightarrow u + \beta = 1, u\beta = -2 \Rightarrow \beta = -\frac{2}{u} \Rightarrow u - \frac{2}{u} = 1 \Rightarrow \frac{u^2 - 2}{u} = 1 \Rightarrow u^2 - 2 = u \Rightarrow u^2 - u - 2 = 0$$

$$(u-2)(u+1) = 0 \Rightarrow u = 2 \text{ or } u = -1$$

$$\Rightarrow \beta = -1 \text{ or } \beta = 2$$

$$\Rightarrow \epsilon(1) + \epsilon(1) - 9(2) - 2 = 0 \Rightarrow \epsilon(1) = 11 \Rightarrow \boxed{u = -1}$$

$$4u^2 + 4u + u = 0 \Rightarrow 5u^2 + 4u = 0 \Rightarrow u(5u + 4) = 0 \Rightarrow u = 0 \text{ or } u = -\frac{4}{5}$$

$$u = -\frac{4}{5} \Rightarrow \beta = -\frac{5}{4} \Rightarrow u + \beta = -\frac{4}{5} - \frac{5}{4} = -\frac{31}{20}$$

$$\Rightarrow \epsilon\left(-\frac{4}{5}\right) + \epsilon\left(-\frac{5}{4}\right) = -\frac{31}{20} \Rightarrow \epsilon\left(-\frac{4}{5}\right) = -\frac{31}{20} - \epsilon\left(-\frac{5}{4}\right)$$

$$\Rightarrow \epsilon\left(-\frac{4}{5}\right) = -\frac{31}{20} - \epsilon\left(-\frac{5}{4}\right) \Rightarrow \epsilon\left(-\frac{4}{5}\right) = -\frac{31}{20} - \epsilon\left(-\frac{5}{4}\right)$$

$$u^2 - 4u - 1 = 0 \Rightarrow u = 2 \pm \sqrt{5} \Rightarrow u + \beta = 4 \Rightarrow \beta = 4 - u = 4 - (2 \pm \sqrt{5}) = 2 \mp \sqrt{5}$$

$$\Rightarrow \epsilon(2 + \sqrt{5}) + \epsilon(2 - \sqrt{5}) = 4 \Rightarrow \epsilon(2 + \sqrt{5}) = 4 - \epsilon(2 - \sqrt{5})$$

$$\Rightarrow \epsilon(2 + \sqrt{5}) = 4 - \epsilon(2 - \sqrt{5}) \Rightarrow \epsilon(2 + \sqrt{5}) = 4 - \epsilon(2 - \sqrt{5})$$

$$P_u u^p + c u - 4 = 0 \quad (d, \beta) \quad \text{و} \quad P_m^p - u u + b = 0 \quad (d + d, \beta + d)$$

$$\Rightarrow d + \beta = -\frac{u}{P_u} \Rightarrow d + \beta = -\frac{1}{P_u} \Rightarrow d + d + \beta + d \Rightarrow d + \beta + 1 \Rightarrow -\frac{1}{P_u} + 1 = \frac{1}{P_u} \Rightarrow d + \beta + 1 = \frac{2}{P_u}$$

$$\Rightarrow \frac{u}{P_u} = \frac{1}{P_u} \Rightarrow \boxed{u=1} \Rightarrow P_u^p + u - 4 = 0 \Rightarrow \frac{c}{u} = d\beta = -3 \Rightarrow (d+d)(\beta+d) = d\beta + d\beta + d + d\beta + \beta + d \Rightarrow \frac{c}{u} = \frac{b}{P_u} = -3 \Rightarrow \boxed{b=-9}$$

$$\Rightarrow -3 + d(-\frac{1}{P_u}) + \frac{d}{P_u} = -3 \Rightarrow \frac{c}{u} = \frac{b}{P_u} = -3 \Rightarrow \boxed{b=-9}$$

$$\Rightarrow \frac{ab}{c} = -\frac{9}{-3} = 3 \Rightarrow [-1/3] = -3$$

$$u u^p - u u - b = 0 \Rightarrow \varepsilon_0 \beta^p + \gamma_0 u^p - \gamma_0 \beta = 1 \Rightarrow d + \beta = 1 \Rightarrow d = 1 - \beta$$

$$\Rightarrow \varepsilon_0 \beta^p + \gamma_0 (1 - \beta^p) - \gamma_0 \beta = 1 \Rightarrow \varepsilon_0 \beta^p + \gamma_0 - \varepsilon_0 \beta + \gamma_0 \beta^p - \gamma_0 \beta = 1 \Rightarrow \gamma_0 \beta^p - \gamma_0 \beta + \gamma_0 = 1 \Rightarrow \gamma_0 \beta^p - \gamma_0 \beta + \gamma_0 = 1$$

$$\Rightarrow \gamma_0 \beta^p - \gamma_0 \beta + \gamma_0 = 1 \Rightarrow \gamma_0 \beta^p - \gamma_0 \beta + 1 = 0 \Rightarrow \Delta = \sqrt{4\gamma_0} = 2\sqrt{\gamma_0} \Rightarrow \beta = \frac{1}{\gamma_0} \pm \sqrt{\gamma_0}$$

$$d = \frac{1}{\gamma_0} \pm \sqrt{\gamma_0} \Rightarrow d + \beta = \frac{1}{\gamma_0} \pm \sqrt{\gamma_0} + \frac{1}{\gamma_0} \pm \sqrt{\gamma_0} \Rightarrow |d - \beta| \Rightarrow \gamma_0 \sqrt{\gamma_0} = \frac{\sqrt{\gamma_0}}{\gamma_0}$$

$$u^p - (u+1)u + b = 0 \Rightarrow d\beta \Rightarrow \gamma_0 u - 1, \gamma_0 u + 1 \Rightarrow d + \beta = (\gamma_0 u - 1)(\gamma_0 u + 1) \Rightarrow \gamma_0 u = u + 1 \Rightarrow u = \gamma_0 u - 1 \Rightarrow \gamma_0 u - 1 = u + 1 \Rightarrow \gamma_0 u - u = 2 \Rightarrow u(\gamma_0 - 1) = 2 \Rightarrow u = \frac{2}{\gamma_0 - 1}$$

$$\boxed{u=2} \Rightarrow u^p - (u+1)u + b = 0 \Rightarrow d\beta = \gamma_0 m + \gamma_0 \Rightarrow d + \beta = \gamma_0 m + \gamma_0 = \varepsilon m + \gamma_0 \Rightarrow \gamma_0 u + 1 \Rightarrow u = 2 \Rightarrow \varepsilon m + \gamma_0 = 1 \Rightarrow m = \frac{1 - \gamma_0}{\varepsilon} \Rightarrow d\beta = \varepsilon \gamma_0 \Rightarrow \varepsilon \gamma_0 = \gamma_0 \Rightarrow |u - b| = |\gamma_0 - \gamma_0| = 0$$

$$u^p + u - 1 - m^p = 0 \Rightarrow u^p + u - (1 + m^p) = 0 \Rightarrow d + \beta = -1 \quad d\beta = -1 - m^p$$

$$\Rightarrow (d + \beta)^p = 1 \Rightarrow d^p + \beta^p + \gamma_0 \beta = 1 \Rightarrow d^p + \beta^p - \gamma_0 m^p = 1 \Rightarrow d^p + \beta^p - \gamma_0 m^p = 1$$

$$\Rightarrow \gamma_0 m^p \geq 0 \Rightarrow m \leq 0 \Rightarrow \boxed{d + \beta^p = 1}$$

$$A(\gamma y) + B(-\partial y) \Rightarrow \gamma y = 1 \Rightarrow d + \beta^p = 1 \Rightarrow \frac{\gamma + (-d)}{\gamma} = -1 \Rightarrow \frac{d + \beta}{\gamma} = -1 \Rightarrow d + \beta = -\gamma$$

$$d^p + \beta^p = 1 \Rightarrow (d + \beta)^p = d^p + \beta^p + \gamma_0 \beta = 1 \Rightarrow \gamma_0 \beta = -1 \Rightarrow d\beta = -1 \Rightarrow d\beta = -\frac{1}{\gamma} \Rightarrow y = \alpha(u - d)(u - \beta)$$

$$1 = y(-1) = \alpha(-1 - d)(-1 - \beta) \Rightarrow (-1 - d)(-1 - \beta) = \left(\frac{\beta - d}{\gamma}\right)\left(\frac{d - \beta}{\gamma}\right) = -\frac{(d - \beta)^2}{\gamma}$$

$$(d - \beta)^2 = (d + \beta)^2 - 4d\beta = \varepsilon + 4 = 4 \Rightarrow 1 = -\alpha \frac{4}{\gamma} \Rightarrow \alpha = -\frac{\gamma}{4} \Rightarrow y(0) = \left(-\frac{\gamma}{4}\right)\left(-\frac{1}{\gamma}\right) = \frac{1}{4}$$

$$\Rightarrow \boxed{C\left(0, \frac{1}{4}\right)}$$