

Subject.

M. Eng.

C. Eng.

10/06/21

Day.

Month.

Year.

$$\beta^0 (\Delta \beta - \gamma) \beta = \gamma \Delta \beta + \varepsilon \beta - \gamma \cdot \beta^0 \quad (1)$$

$$\frac{\varepsilon \alpha}{\Delta \beta^0} + \frac{\beta^0}{\alpha} = \frac{\varepsilon (\Delta - \beta)}{\Delta (\Delta \beta - \gamma)} + \frac{(\Delta \beta^0 - \gamma \beta)}{\alpha}$$

$$\frac{\gamma \cdot - \Delta \beta + \gamma \Delta \beta^0 + \gamma \beta - \gamma \cdot \beta^0}{\Delta (\Delta \beta - \gamma)} =$$

$$\gamma \rightarrow \frac{(\gamma - 1) \Delta}{\gamma} = \frac{\mu}{\varepsilon}$$

$$-\frac{b}{\gamma a} = \frac{\gamma}{\varepsilon} \Rightarrow -\varepsilon b = \gamma a$$

$$\gamma b = \gamma a$$

$$-\frac{\gamma}{\varepsilon} b = a$$

$$-\frac{\gamma}{\varepsilon} b a + b a + c = \gamma \rightarrow -\frac{\gamma}{\varepsilon} b \times \frac{\gamma}{\varepsilon} + b \times \frac{\gamma}{\varepsilon} + c = -\varepsilon$$

$$-\frac{\gamma}{\varepsilon} b + c = -\varepsilon$$

$$-\frac{\gamma}{\varepsilon} b + c = -\varepsilon \rightarrow -b - c = \varepsilon$$

$$\gamma b - \gamma c = \gamma$$

$$b + c = \varepsilon, -b + c = -\varepsilon \Rightarrow c = 0, b = \varepsilon$$

$$\frac{\sqrt{\Delta}}{|a|} = \frac{\varepsilon}{\gamma} k$$

$$\frac{\sqrt{\varepsilon k^2 - \gamma}}{1} = \frac{\varepsilon}{\gamma} k \quad (2)$$

$$\left[\frac{k^2}{\gamma} \right] = \left[\frac{\gamma}{\gamma} \right] = \varepsilon$$

$$1 \times \sqrt{k^2 - \gamma} = \frac{\varepsilon}{\gamma} k$$

$$\gamma \sqrt{k^2 - \gamma} = \varepsilon k$$

$$\gamma k^2 - \varepsilon \gamma = \varepsilon^2 k^2 \Rightarrow \gamma k^2 - \varepsilon \gamma = \varepsilon^2 k^2$$

$$k^2 = \gamma \left(\frac{\gamma}{\gamma} - \varepsilon \right) = \gamma - \varepsilon$$

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$$q^r + p^r = s^r - r p^r \rightarrow \frac{-b}{a} \rightarrow \frac{c}{a}$$

(E)

$$\frac{r + (-d)}{r} = -1 \Rightarrow \frac{-b}{a} = -1 \quad b = a$$

$$\frac{b^r - \varepsilon a c}{-r a} = \frac{b^r - \varepsilon b c}{-\varepsilon b} = \frac{b(b - \varepsilon c)}{-\varepsilon b} = 1$$

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

$$q^r + p^r = s^r - r p^r = \varepsilon - r \left(\frac{a+1}{a} \right) = 2$$

$$\frac{r a + r}{a} = -1 \Rightarrow r a + r = -a \Rightarrow r a = -r \quad a = -\frac{r}{r}$$

$$a+1 = -\frac{r}{\varepsilon} + 1 = \frac{1}{r}$$

$$\alpha < \beta < \frac{q}{r}$$

$$\frac{\alpha}{-1} + \frac{\beta}{1} = -$$

(A)

$$-\frac{11}{\varepsilon} + \frac{\varepsilon d}{r} + m < 0$$

$$r d + \varepsilon m > 0$$

$$\varepsilon m > -r d$$

$$\frac{-11 + q}{\varepsilon} + m < 0$$

$$m > \frac{-r d}{\varepsilon} = -9/12$$

$$m < -\frac{9}{\varepsilon} = -r/12$$

$$-9/12 < m < -r/12 \rightarrow -d, -\varepsilon, -r, -r \rightarrow \varepsilon$$

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$$m \neq 0$$

(2)

$$\frac{1 \text{ E} \text{ E} - \text{E} m (\delta m - 1)}{- \text{E} m} = q$$

$$1 \text{ E} \text{ E} - \text{E} m \delta + \text{E} m = - \text{E} m$$

$$- \text{E} m \delta + 1 \text{ E} \text{ E} + \text{E} m = 0$$

$$\delta m - \text{E} m = \text{E} q$$

$$m = \frac{- \text{E} \pm \sqrt{\text{E}^2 - 4 \text{ E} q}}{1} = \frac{- \text{E}}{1} \pm \frac{\text{E}}{1} = \text{E}$$

$$a = \frac{b}{r a} = \frac{q}{r} = \text{E}$$

$$\alpha \beta = a^r$$

(V)

$$r a - 1 = a^r$$

$$= a^r - r a + 1$$

$$= (a - 1)^r$$

$$1 = a$$

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$$m^r = t$$

(K)

$$t^r - vt - d = 0$$

$$t = \frac{v \pm \sqrt{v^2 + 4d}}{r} = \frac{v + \sqrt{4d}}{r}$$

disc

$$m^r = \frac{v + \sqrt{4d}}{r} = S = 0$$

$$\Rightarrow r p^r = \frac{v^2 + v \sqrt{4d}}{2d + v \sqrt{4d}}$$

$$- \cancel{E} m - E = K m^r - \cancel{E} m - 4$$

$$0 = K m^r - r$$

$$r = K m^r$$

$$m = \frac{E}{r K}$$

$$1 = K \times \frac{1}{E K r}$$

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

$$r = K$$

$$y_s = \frac{19 - 13 \times 13(-9)}{-E K r}$$

$$- m m^r + m m + 1 \neq - m - m$$

(10)

$$- m m^r + (m+1)m + 1 + m \neq 0$$

$$(m+1)^r + E m (1+m) < 0$$

$$m^r + r m + 1 + E m + E m^r < 0$$

$$8 m^r + 4 m + 1 < 0$$

$$m = (-1, -\frac{1}{2})$$

$$\begin{array}{c} -1 \quad -\frac{1}{2} \\ + \quad | \quad - \quad | \quad + \end{array}$$