

Subject:

Date:

$$A = \{1, 2, 3\} \quad B = \{1, 2\}$$

$$A \times B = B^A \rightarrow \{(1, 1), (1, 2), (2, 1), (2, 2)\}$$

$$\{(1, 1), (1, 2)\} \rightarrow \dots$$

(1)

$$4m^2 - 8m - 4 = 0$$

(1) ①

$$m^2 - 2m - 1 = 0 \Rightarrow (m-3)(m+1) = 0$$

$$m = \frac{2 \pm \sqrt{4 + 4}}{2} = \frac{2 \pm \sqrt{8}}{2} = \frac{2 \pm 2\sqrt{2}}{2} = 1 \pm \sqrt{2}$$

$$m^2 - 2m - 1 = 0$$

(1)

$$m^2 - 2m - 1 = 0 \Rightarrow (m-3)(m+1)$$

$$m = \frac{2 \pm \sqrt{4 + 4}}{2} = \frac{2 \pm \sqrt{8}}{2} = \frac{2 \pm 2\sqrt{2}}{2} = 1 \pm \sqrt{2}$$

$$m^2 = m + 1$$

(K)

$$m^2 - m - 1 = 0 \quad a + c = b \quad m = -16$$

$$m = -1$$

$$m^2 - 5m - 1 = 0$$

(2)

$$m^2 - 5m - 1 = 0 \Rightarrow (m-4)(m+1)$$

$$m = \frac{5 \pm \sqrt{25 + 4}}{2} = \frac{5 \pm \sqrt{29}}{2}$$

$$m^2 = m + 1 \quad a + c = b$$

$$m^2 - m - 1 = 0 \quad m = 16 - 1$$

$$m = 1$$

$$a^2 - 3a + 1 = 0 \quad a + b + c$$

(8)

$$a = 1 \quad \rightarrow \dots$$

$$m^2 - 8m - 1 = 0 \Rightarrow (m-4)(m+2)$$

$$m = \frac{8 \pm \sqrt{64 + 4}}{2} = \frac{8 \pm \sqrt{68}}{2} = \frac{8 \pm 2\sqrt{17}}{2} = 4 \pm \sqrt{17}$$

$$0 = a + b$$

$$1 = 2a + b \Rightarrow a = 1 \quad b = -1$$

(4)

$$m^2 - 8m - 1 = 0 \quad (m-4)(m+2)$$

$$m = 4 \pm \sqrt{17}$$

$$rk - 1 = 5 - rk$$

(V)

$$8k = 6 \Rightarrow k = \frac{3}{4}$$

$$m^2 + 2m + 1 = 0 \quad a + c = 0$$

$$m = -1 \pm \sqrt{1 - 1} = -1$$

$$m = 1 \quad y^2 - 4y = 0 \Rightarrow y = 0, 4$$

(A)

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

$$m^2 + 2m - 1 = 0$$

(20)

$$m = 0 \quad y = \pm 1$$

$$m = \frac{-2 \pm \sqrt{4 + 4}}{2} = \frac{-2 \pm \sqrt{8}}{2} = \frac{-2 \pm 2\sqrt{2}}{2} = -1 \pm \sqrt{2}$$

$$m = -1 \pm \sqrt{2}$$

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ب) $y_1^r + y_2^r = 0$ (if $m_1 = m_2$)
 $y_1^r + y_2^r = 0$ $\Rightarrow y_1^r + y_2^r = y_1^r + y_2^r$

ج) $\cos x = -1$ $|y| = \sqrt{2}$
 $y = \pm \sqrt{2}$ X

$(y_1 - y_2)(y_1^r + y_2^r + y_1 y_2 + 1)$

د) $y^r = -(n+1)^r$
 $(-1, 0)$ ✓

$\Delta = y_1^r - \Lambda y_2^r = -\sqrt{y_1^r} < 0$
 ✓ $y_1 = y_2$

ان) $\sqrt{y_1} = -m_1^r + m_2^r - 1 - (m_1 - 1)^r$
 $\sqrt{y_2} = -m_1^r + m_2^r - 1 - (m_2 - 1)^r$

ان) $x \sin y = y \sin x \rightarrow x = y = 1R$ (10)

ب) $\sqrt{\frac{x}{y}} + \sqrt{\frac{y}{x}} = 1$ مجموع جذور 2

if $(m_1 = m_2) \Rightarrow \sqrt{y_2} = \sqrt{y_1}$
 ✓ $y_2 = y_1$

$\frac{x}{y} = 1$ $\Leftarrow$
 $x = y$

✓ $y_2 = y_1$

ب $\rightarrow$ ستر