

DATE

Subject:

$$\{ (p, r) (n, a) (p, n^r - n) (m, r) (-1, r) \}$$

$m \geq r$

$$n^r - n \geq r$$

$$n^r - n - r \geq 0$$

$$(n-r)(n+1) < \frac{n \geq r \checkmark}{n \geq 1 \text{ و } \varepsilon}$$

$$\Rightarrow \{ (-1, 1) (1, r) (r, r) (a, m-r) (a, r, n) \}$$

$$(m, r) \}$$

$m \geq r$

$$(a, r) \quad \frac{-1+r}{1}$$

$$a \geq 1$$

$$(n \geq r)$$

$$\textcircled{9} \textcircled{2} \textcircled{1}$$

$$\textcircled{9} \textcircled{2} \textcircled{1}$$

$$\textcircled{1} \quad x_1 + 2 = x_2^3 + 2$$

$$x_1^3 = x_2^3$$

$$x_1 = x_2 \checkmark$$

$$\textcircled{1, 0}$$

$$f^{-1}(n) = x \geq y \text{ و } r$$

$\sqrt[n]{n-r}$

$$\Rightarrow y = \frac{x+r}{x+r}$$

$$\frac{x+2x_1}{x_1+2} = \frac{4+2x_2}{x_2+2}$$

$$(4+2x_1)(x_2+2) = (4+2x_2)(x_1+2)$$

$$4x_2 + 8 + 2x_1x_2 + 4x_1$$

$$4x_1 + 8 + 2x_1x_2 + 4x_2$$

Simplify

(2)

$$\sqrt{x_1-3} = \sqrt{x_2-3}$$

$$x_1-3 = x_2-3$$

$$x = \sqrt{y-3}$$

$$\checkmark x_1 = x_2$$

1)

(4)
10

→

$$(x^r - rx + r) - 1 = (x - 1)r - 1$$

a) .

$$S_L \rightarrow (r_2 - r)$$

$$f(1) = 1 - r + r_2 - 1 = \underline{\quad \Delta \quad}$$

$$f(r) = 1 - r + r_2 - 1$$

$r_2 = 1$

$n_2 = 1$

$$\text{ii)} \quad \frac{3x_1 + 1}{x_1 - 1} = \frac{3x_2 + 1}{x_2 - 2}$$

(5)

$$(3x_1 + 1)(x_2 - 2) = (3x_2 + 1)(x_1 - 2)$$

$$3x_1x_2 - 6x_1 + x_2 - 2 = \underline{\quad \text{Simplify} \quad}$$

$$3x_1x_2 - 6x_1 + x_2 - 2 = \underline{\quad \text{Simplify} \quad}$$

$$-6x_1 + x_2 = -6x_2 + x_1$$

$$-7x_1 = -7x_2$$

$$\checkmark x_1 = x_2$$

$$f^{-1}(x) = \frac{x^2 y + 1}{y - 1}$$