



$$f(x) = \frac{x^r + cx + d}{x^r + cx + v} \quad f(\sqrt{r}-r) = ?$$

(y)

-V

$$\frac{(\sqrt{r}-r)^r - c\sqrt{r} - r + d}{(\sqrt{r}-r)^r + c\sqrt{r} + r + v} = \frac{f}{c} = \frac{r}{r}$$

$$f(x) = ax^r + ax + b \quad (-b-c)$$

-A

$$1-1 + b \cdot c \Rightarrow b \cdot c - r \quad (x^r - r)(-1) = 1 - 1 + r - 1 = r$$

$$f(x) = ax^r + ax - r \quad x^r - r = (x+1)(x^r - x - 1)$$

$$\frac{1+r}{r} = 1 \quad \frac{1+r}{r}$$

(y)

$$y = rx + a = 0$$

$$\rightarrow y = rx + a = 0$$

$$y = rx + a$$

$$-c - r(-1) + a = 0$$

$$y = rx - 1$$

$$x^r - r(x-1)$$

$$\Rightarrow x^r - (x-1) = 0$$

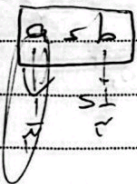
$$\left\{ \left( \frac{r}{r}, \frac{a+b}{r} \right), \left( \frac{1}{r}, \frac{a}{r} \right), \left( -1, \frac{a-rb+r}{r} \right) \right\}$$

(y)

$$a+b = ra$$

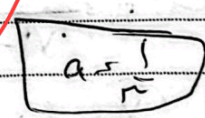
$$ra = a - rb + 1$$

$$b = rb + 1$$



$$a = -rb + 1$$

$$\frac{a}{r} = b = 1$$



$$f(x) = \frac{cx^r - ax + c + 1}{bx + r} \quad a = \frac{cx^r - ax + c + 1}{bx}$$

(y)

$$bx^r + r = cx^r - ax + c + 1$$

$$b = c$$

$$cx^r + r = cx^r - ax + c + 1 \Rightarrow c + 1 = 0$$

$$-a = -r \Rightarrow a = r$$

$$c = -1$$

$$a + b + c = r + r - 1 = 2r - 1 = 0$$

$$\frac{cx^r - ax + c + 1}{bx + r} = x \rightarrow cx^r - ax + c + 1 = bx^r + rx$$

$$a = -r$$

Arman

$$a + b + c = 0$$