

$$f(x) = x^r - \sqrt{x+1} = (x-1)^r - x$$

$$\frac{rf(r) + f(-1)}{f^r(r)}$$

$$f^r(r)$$

$$\frac{r + \delta}{1} = v$$

Ⓟ ✓

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$$f(x) = \begin{cases} x^r & x \geq r \\ x^r & x < r \end{cases}$$

$$\frac{wf(r) - rf(-r)}{f(r)}$$

$$\frac{wx/r - \lambda}{v} = \frac{w}{v}$$

Ⓟ ✓

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$$f = \{(r, 4), (r, 3), (r, 1), (1, 4)\}$$

$$\frac{f(f(r)) - f(f(r))}{f(1) - r}$$

Ⓟ ✓

$$f(r) = 1, f(1) = 4, f(r) = r, f(r) = 4, f(1) = 4 \Rightarrow \frac{4-4}{4-r} = \frac{0}{\epsilon} = 0$$

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$$f(x) = \frac{x^r + \epsilon x + 9}{x^r + \epsilon x + 0}$$

$$f(f(\sqrt{r}-r))$$

$$f(x) = \frac{(x+r)^r + 0}{(x+r)^r + 1}, f(\sqrt{r}-r) = \frac{1}{\epsilon} = r \Rightarrow f(r) = \frac{r}{1+r}$$

Ⓟ ✓

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$$f(x) = x^r + \frac{1}{x^r}$$

$$(f(\sqrt{r}))^r - f(r)$$

$$f(x) = x^r + \frac{1}{x^r}, f(\sqrt{r}) = r + \frac{1}{r} \Rightarrow (r + \frac{1}{r})^r - r - \frac{1}{r} = r$$

Ⓟ ✓

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