Femchon of functions (composité functions).

Algebraic

Ingonometric.

Cogarillimic

Exponentials.

(Polynomials)

2 (nianmegai) sux.

(-or, od)

(-ar, a) for odd n. [-1, 1]

[0,00) for even n.

n = 3 an integer $f[g(x)] = fog(x) = .[g(x)]^n$.

= (suz) = sun 2.

Domani

[-1, 1] -> [n is odd)

[0,1] - n is even

Donain of g(u) is [0,211]

Range of fog(n) -> [-1,1] for odd n-[0,1] for even n.

 $(-1)^{\frac{1}{2}} = (-1)^{\frac{1}{3}} =$

P.(21 - 7)

g(n) = 8mx.

$$f(x) = x^{n} \qquad g(x) = 8mx.$$
 $n : j \text{ an unteger}$

$$g(x) = gof(x) = su_{j}(x^{n})$$

$$n = 3.$$

$$gof(x) = su_{j}(x^{2}) \qquad su_{j}(x^{2})$$

$$Doman \qquad (-K_{j}, K_{j}) \qquad (-K_{j}, K_{j})$$

$$Raupe \cdot [-1, 1] \qquad [-1, 1]$$

$$T = 3. \text{ if } x = (-T_{j}, T_{j})$$

$$T = 3. \text{ if } x = (-T_{j}, T_{j}) = (0, 0) \Rightarrow (0, 2T_{j})$$

$$T^{2} \times 10^{2} \qquad g(x) = x^{n} \quad , \quad n \text{ is an unteger}$$

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$$T = 3. \text{ if }$$

$$y = \frac{x^2 + x + 1}{x^2 - 3x + 2}$$

$$\sqrt{D = 1}$$

 $yn^2 - 3yn + 2y = x^2 + n + 1$ $ya^2-n^2-3ya-n+2y-1=0$ (y-1) 22 - (3y+1) 2 + (2y-1) = a

 $\frac{0>0}{(3y+1)^2>, 4(y-1)(2y-1)}$

ay2+by+1 >, 4(2y2-3y+1) -32+18y-37,0.

(y-Q(y-\$) 0.

Y > P & y < X α=-18-√334 β=-18+√254 (-ω,α]U[β,ω)

y2+18y-3 D>0 $y = -18 \pm \sqrt{324 + 12}$ $= -18 \pm \sqrt{334} = 0.18$