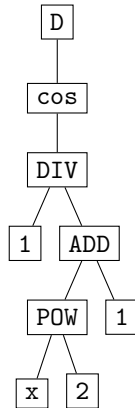


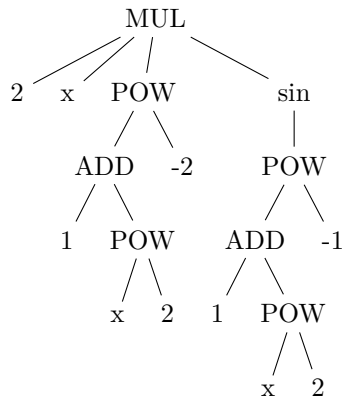
Hi! Consider the expression $\frac{d}{dx}(\cos(\frac{1}{x^2+1}))$. This autosimplifies to

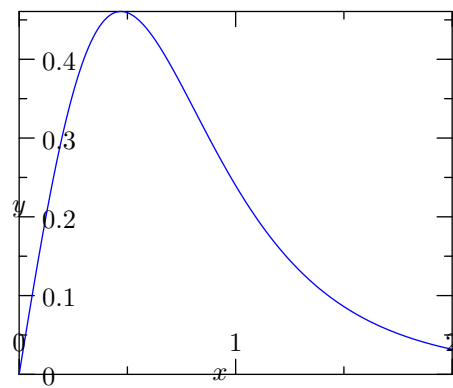
$$\frac{2x \sin((1+x^2)^{-1})}{(1+x^2)^2}.$$

`(2 * x * ((1 + (x ^ 2)) ^ -2) * sin(((1 + (x ^ 2)) ^ -1)))`



Here is the evaluated tree for $\frac{2x \sin((1+x^2)^{-1})}{(1+x^2)^2}$:





$$2xf'(x^2)$$

$$0$$

$$x^2 + xy + y^2 \text{ vs } x^2 + x * y + y^2$$

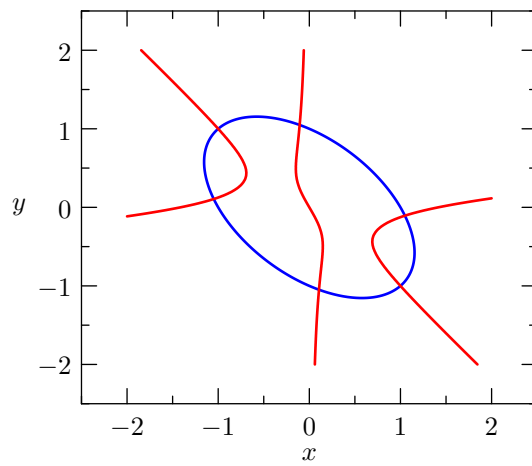
$$f = x^3 - y + 2x^2y$$

$$f_x = 3x^2 + 4xy$$

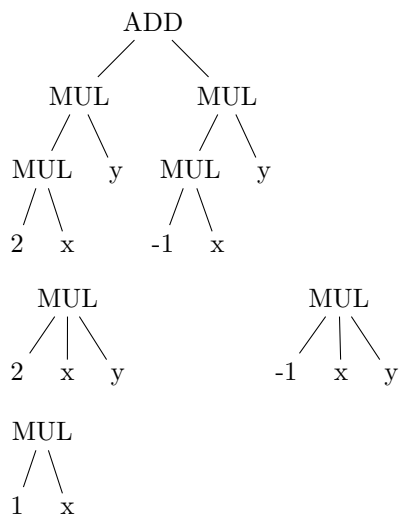
$$f_y = -1 + 2x^2$$

$$2x - x^3 + y + 8x^2y + 8xy^2$$

$$x^2 + xy + y^2$$

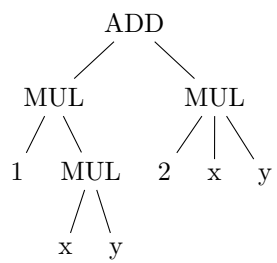


$$2xy - xy$$



x

$6xy$



Unequal

$3xy$