# A Haskell Calculus Solver!

((x),(((x)\*(y))\*(sin(x)))) ={Mul} ((((x),((x)\*(y)))\*(sin(x)))+(((x)\*(y))\*((x),(sin(x))))) ={Mul} ((((((x),(x))\*(y))+((x)\*((x),(y))))\*(sin(x)))+(((x)\*(y))\*((x),(sin(x))))) ={Sin} ((((((x),(x))\*(y))+((x)\*((x),(y))))\*(sin(x)))+(((x)\*(y))\*((cos(x))\*((x),(x))))) ={DerivativeSelf} (((((1)\*(y))+((x)\*((x),(y))))\*(sin(x)))+(((x)\*(y))\*((cos(x))\*((x),(x))))) ={DerivativeSelf} (((((1)\*(y))+((x)\*((x),(y))))\*(sin(x)))+(((x)\*(y))\*((cos(x))\*(1)))) ={DerivativeNotSelf} (((((1)\*(y))+((x)\*(0)))\*(sin(x)))+(((x)\*(y))\*((cos(x))\*(1)))) ={ZeroMul} (((((1)\*(y))+(0))\*(sin(x)))+(((x)\*(y))\*((cos(x))\*(1)))) ={OneMul} (((((1)\*(y))+(0))\*(sin(x)))+(((x)\*(y))\*(cos(x)))) ={OneMul.2} ((((y)+(0))\*(sin(x)))+(((x)\*(y))\*(cos(x)))) ={ZeroAdd} (((y)\*(sin(x)))+(((x)\*(y))\*(cos(x))))