CÁLCULO. FUNCIONES INVERSAS Y TRIGONOMÉTRICAS.

FUNCIONES INVERSAS

```
> with(plots):
> f:=x->exp(x);
> g:=x->ln(x);
> g(f(5));
> F:=plot(f(x),x=-5..5,y=-5..10):
> G:=plot(g(x),x=-5..5,y=-5..10):
> bis:=plot(x,x=-5..5,y=-5..10,color=green):
> display(F,G,bis);
```

FUNCIONES TRIGONOMÉTRICAS CIRCULARES Y SUS INVERSAS.

```
> S:=plot(sin(x),color=red):
> C:=plot(cos(x),color=green):
> display(S,C);
> plot(tan(x),x=-2*Pi..2*Pi,y=-40..40);
> AS:=plot(arcsin(x),x=-1..1):
> display(AS);
> SIN:=plot(sin(x),x=-Pi/2..Pi/2,color=blue):
> bis2:=plot(x,x=-1.5..1.5,y=-1.5..1.5,color=green):
> display(AS,SIN,bis2);
> AC:=plot(arccos(x),x=-1..1):
> display(AC);
> COS:=plot(cos(x),x=0..Pi,color=blue):
> bis3:=plot(x,x=-1..3,y=-1..3,color=green):
> display(AC, COS,bis3);
> AT:=plot(arctan(x),x=-10..10):
> display(AT);
> TAN:=plot(tan(x),x=-1.5..1.5,color=blue):
> bis4:=plot(x,x=-10..10,y=-10..10,color=green):
> display(AT, TAN,bis4);
```

FUNCIONES TRIGONOMÉTRICAS HIPERBÓLICAS Y SUS INVERSAS.

```
> restart;with(plots):
> SH:=plot(sinh(x),color=red):
> CH:=plot(cosh(x),color=green):
> TH:=plot(tanh(x)):
> display(SH);
> display(CH);
> display(TH);
> ASH:=plot(arcsinh(x),color=blue):
> ACH:=plot(arcosh(x),color=magenta):
> ATH:=plot(arctanh(x)):
> display(ASH);
> display(ACH);
> display(ATH);
> diff(arcsinh(x),x);
> diff(arccosh(x),x);
> diff(arctanh(x),x);
```