

```
> restart;  
> f:=x->x*exp(-x^2)-cos(x);  
f:=x→xe-x2 - cos(x) (1)
```

```
> df:=D(f);  
df:=x→e-x2 - 2x2e-x2 + sin(x) (2)
```

```
> with(CodeGeneration):
```

```
> C(f);
```

```
Warning. procedure/module options ignored
```

```
#include <math.h>
```

```
double f (double x)
```

```
{  
  return(x * exp(-x * x) - cos(x));  
}
```

```
> C(df);
```

```
Warning. procedure/module options ignored
```

```
#include <math.h>
```

```
double df (double x)
```

```
{  
  return(exp(-x * x) - 0.2e1 * x * x * exp(-x * x) + sin(x));  
}
```

```
> plot(f(x),x=1..2);
```

