

**Programmiermethoden in der Mathematik WS 02/03:**  
**Mathematische Funktionen und Konstanten** in der Header-Datei cmath

```
// The -*- C++ -*- math functions header.  
// This file is part of the GNU ANSI C++ Library.  
extern "C++" {  
float acos (float);  
float asin (float);  
float atan (float);  
float atan2(float, float);  
float ceil (float);  
float cos (float);  
float cosh (float);  
float exp (float);  
float fabs (float);  
float floor(float);  
float fmod (float, float);  
float frexp(float, int*);  
float modf (float, float*);  
float ldexp(float, int);  
float log (float);  
float log10(float);  
float pow (float, float);  
float pow (float, int);  
float sin (float);  
float sinh (float);  
float sqrt (float);  
float tan (float);  
float tanh (float);  
inline float abs (float x) { return fabs (x); }  
} // extern "C++"
```

M_E	$e$
M_PI	$\pi$
M_PI_2	$\pi/2$
M_1_PI	$1/\pi$
M_SQRT2	$\sqrt{2}$