

In [3]: `# Python as a calculator`  
`a, b, c = 2, 5, 10`  
`d = a*b**2+c*np.sqrt(a)-np.pi`  
`d`

Out[3]: 61.000542970141154

In [2]: `#Defining your own function`  
`def eq1(x, y, co, v, Dm):`  
 `return co/2*(1-erf(y/(np.sqrt(4*Dm*(x/v)))))`

In [3]: `# using your own function`  
`x = np.linspace(0.1,100,10000)`  
`y = 2`  
`v = 1`  
`Dm = 1`  
`label = ["Co = 1", "Co = 2", "Co = 3", "Co = 4", "Co = 5"]`  
`for co in [1, 2, 3, 4, 5]:`  
 `cm = eq1(x,y,co, v, Dm)`  
 `plt.plot(x, cm)`  
 `plt.legend(label)`  
 `plt.ylabel(r'$C_m$ (mg/L)'), plt.xlabel(r'$x$ (m)')`  
 `plt.grid(), plt.savefig("fig_L1.pdf")`

