Plot 2D
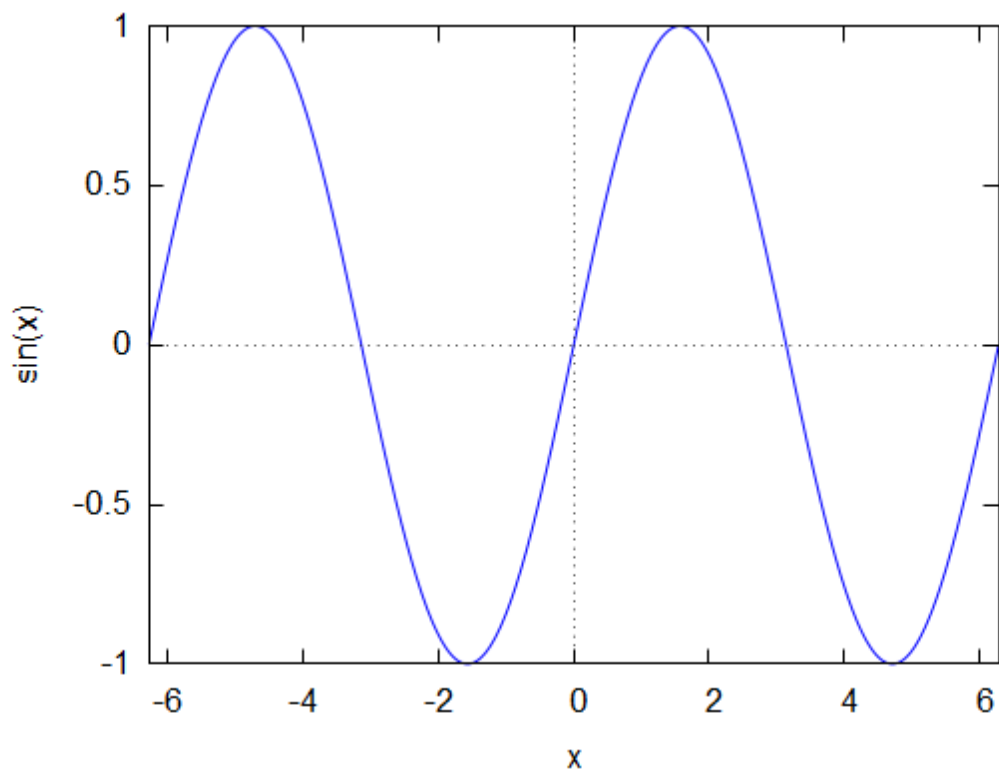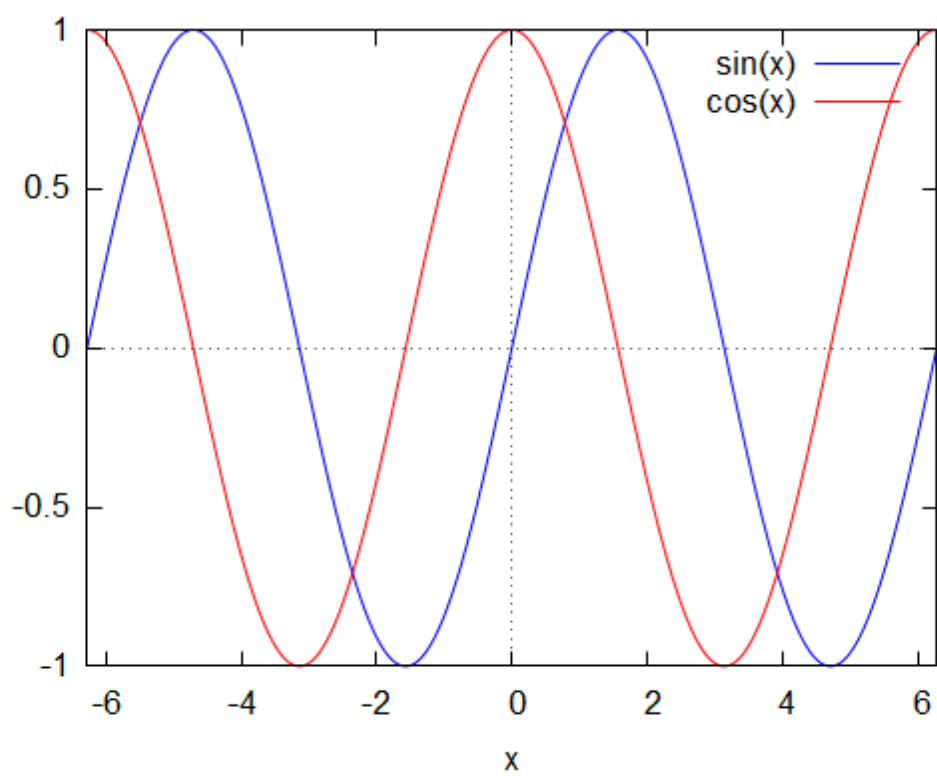
(%i1) wxplot2d (sin (x) , [x , − 2 · %pi , 2 · %pi]) ;

(%t1)

(%o1)

(%i2) wxplot2d ([sin (x) , cos (x)] , [x , − 2 · %pi , 2 · %pi]) ;
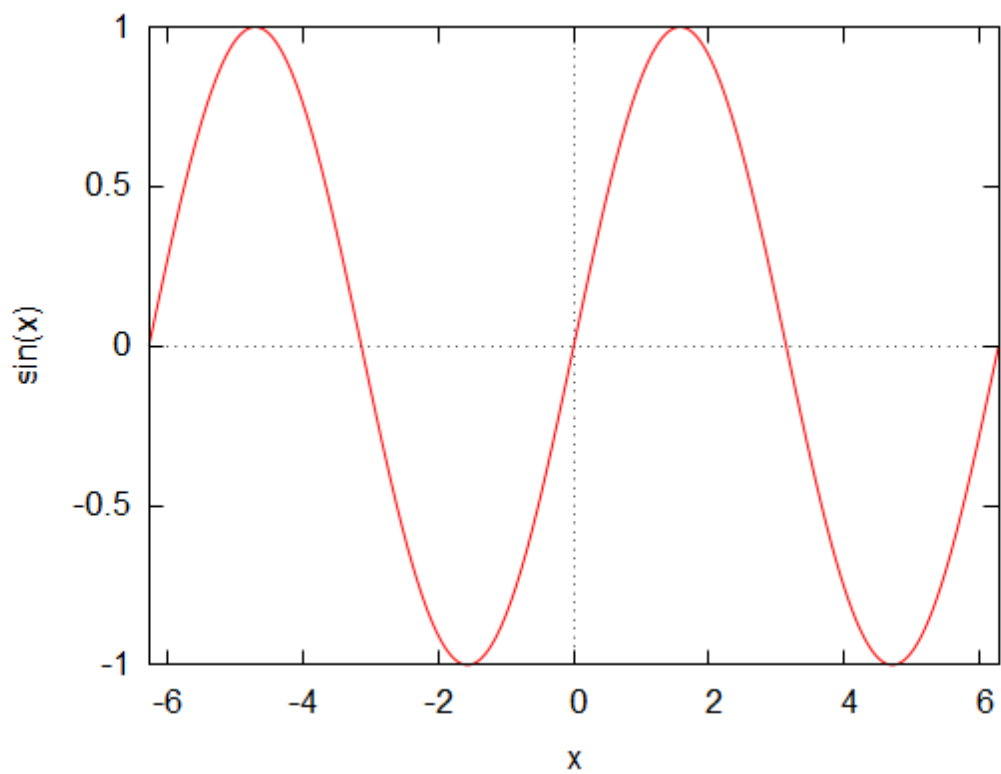
(%t2)

(%o2)

(%i3) wxplot2d (sin (x) , [x , − 2 · %pi , 2 · %pi] , [color , red]) ;
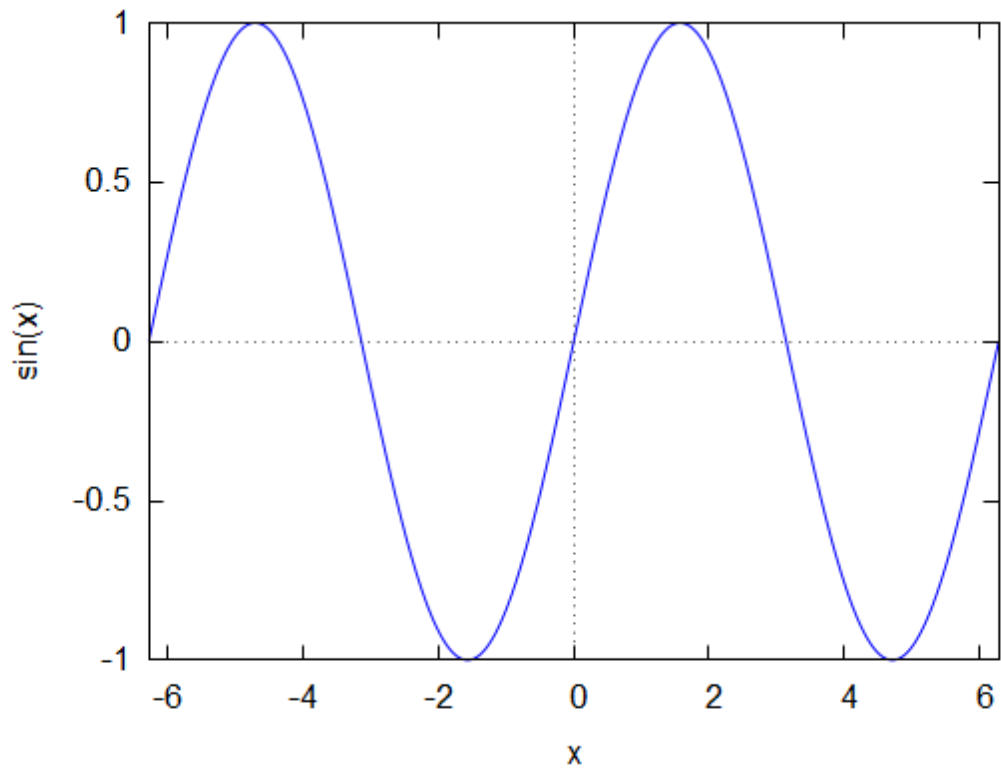
(%t3)

(%o3)

(%i4) wxplot2d (sin (x) , [x , − 2 · %pi , 2 · %pi] , [color , blue]) ;

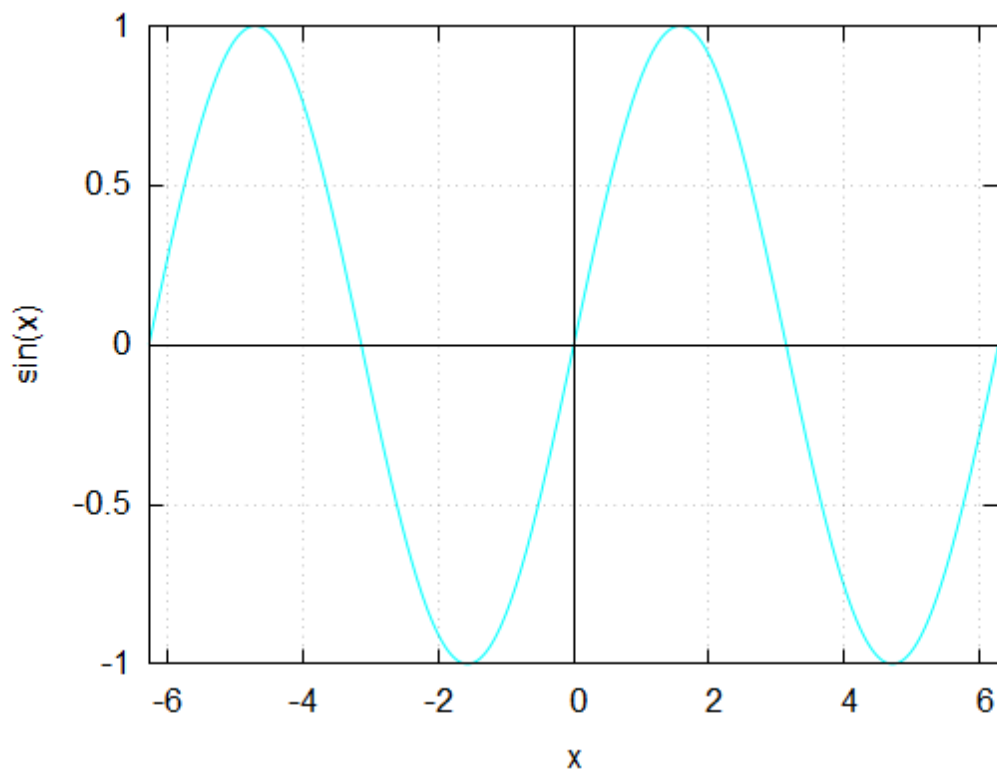(%t4)

(%o4)

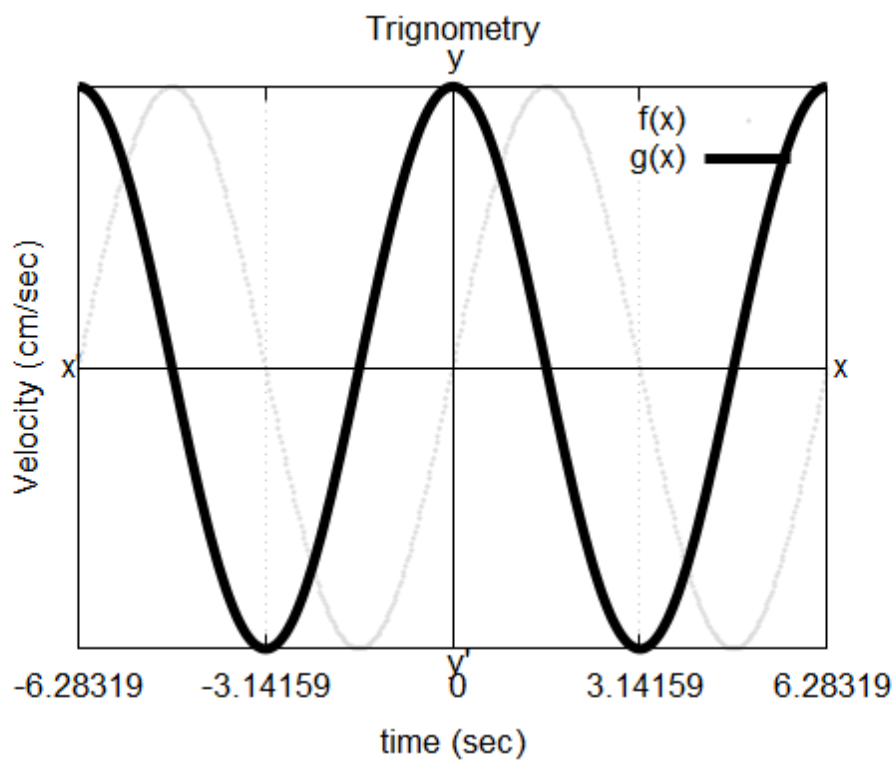(%i5) wxplot2d (sin (x) , [x , − 2 · %pi , 2 · %pi] , [color , "#00FFFF"] , grid2d , [axes , solid]) ;

(%t5)

(%o5)

(%i19) f (x) : = sin (x) $
        g (x) : = cos (x) $
        wxplot2d ([f (x) , g (x)] , [x , − 2 · %pi , 2 · %pi] , [style , [points , 0 . 5 , "#DDDDDD"] ,
            [lines , 5 , "#000000"]] , [box , true] , [grid2d , true] , [axes , solid] ,
            [title , "Trignometry"] , [legend , "f(x)" , "g(x)"] ,
            [label , ["x" , 2 · %pi + 0 . 1 , 0] , ["x'" , − 2 · %pi − 0 . 3 , 0] ,
                ["y" , − 0 . 1 , 1 . 1] , ["y'" , − 0 . 1 , − 1 . 05]] ,
            [xtics , − 2 · %pi , %pi , 2 · %pi] , [ytics , false] ,
            [xlabel , "time (sec)"] , [ylabel , "Velocity (cm/sec)"]) $

(%t19)

(%i9) wxplot2d ([floor (x) , signum (x)] , [x , − 5 . 5 , 5 . 5] , [y , − 5 . 2 , 5 . 2] ,
        [style , [points , 2 , "#FF00FF" , 4] , [points , 2 , "#00FF00" , 3]]) ;
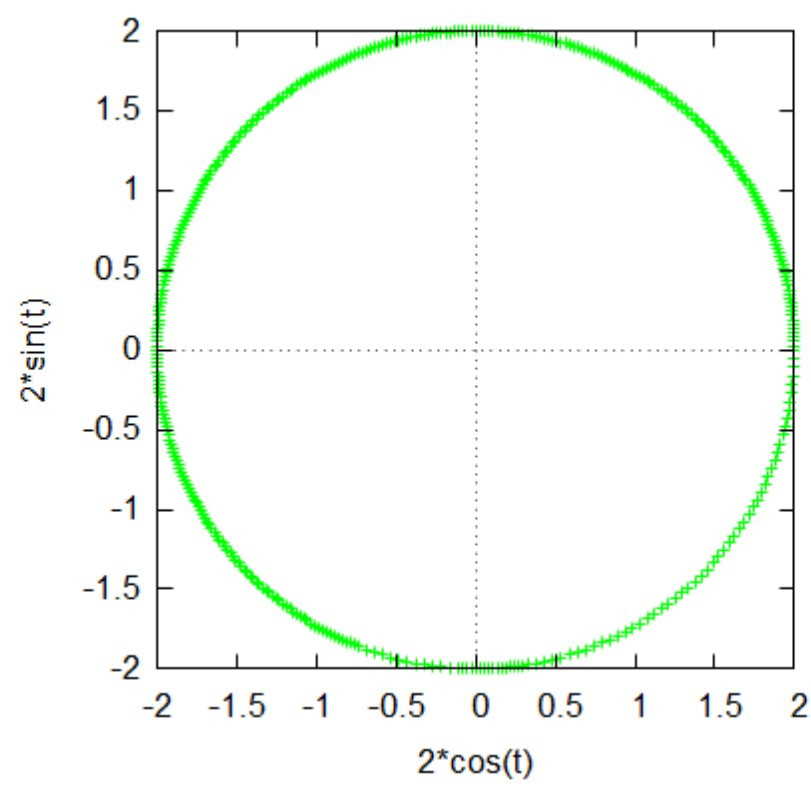
plot2d : somevalueswereclipped.

(%t9)
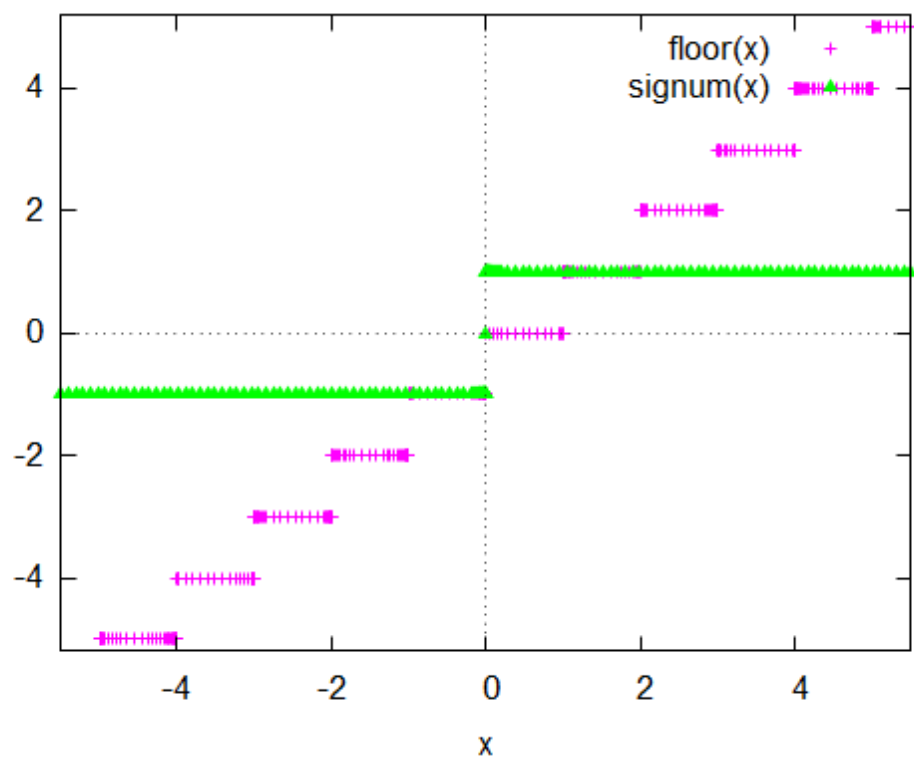
(%o9)

(%i10) wxplot2d ([parametric , 2 · cos (t) , 2 · sin (t) , [t , − %pi , %pi]] ,
        [style , [points , 2 , "#00FF00" , 4]] , [yx_ratio , 1]) ;

(%t10)

(%o10)

(%i11) wxplot2d ([discrete , [[1 , 2] , [2 , 3] , [3 , 4] , [4 , 5] , [5 , 6]]] , [style , [points , 5 , 2 , 3]]) ;

(%t11)
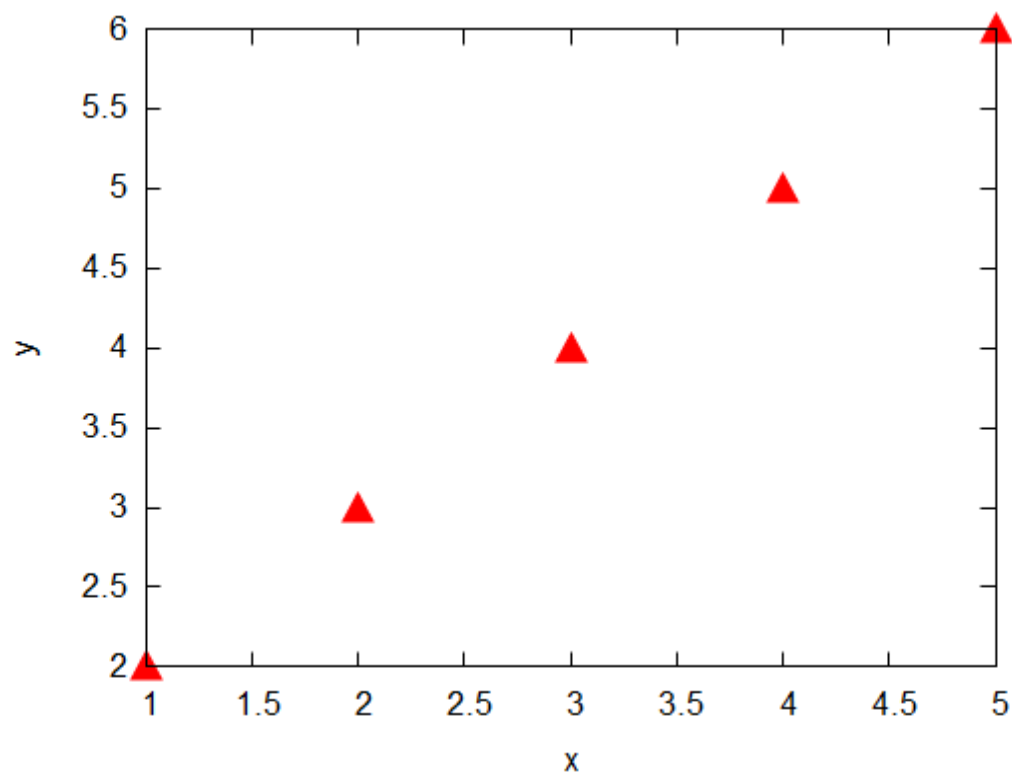
(%o11)

(%i12) wxplot2d (makelist (sin (n · x) , n , 1 , 10) , [x , − %pi , %pi]) ;

(%t12)
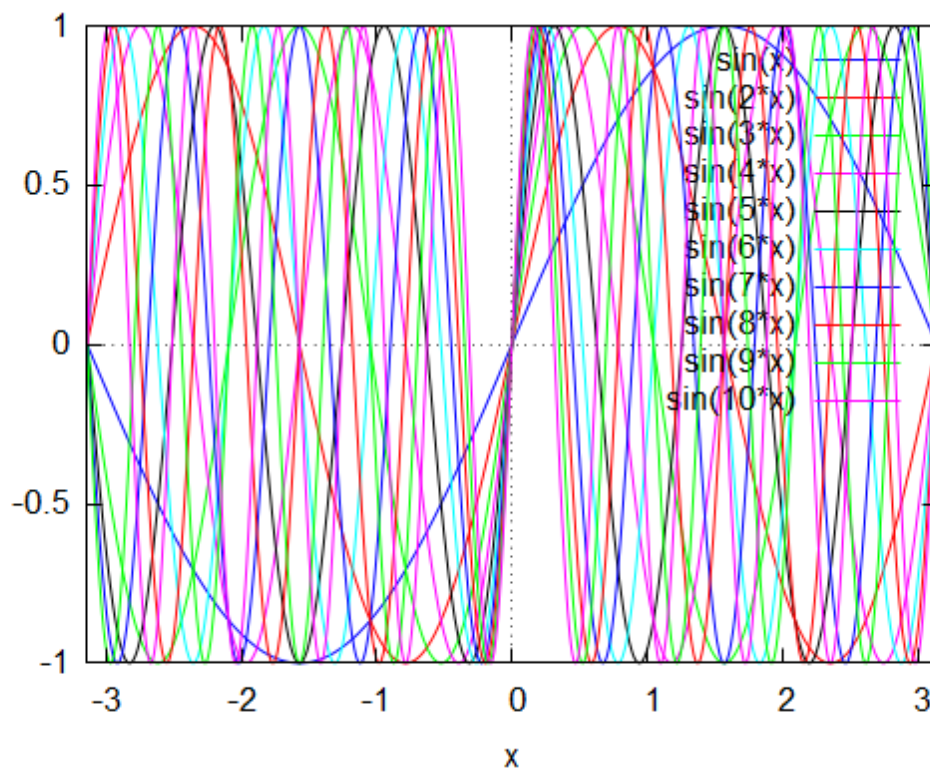
(%o12)

(%i13) with_slider (n , makelist (n / 10 , n , 1 , 20) , sin (n · x) , [x , − %pi , %pi]) ; /*for animations*/
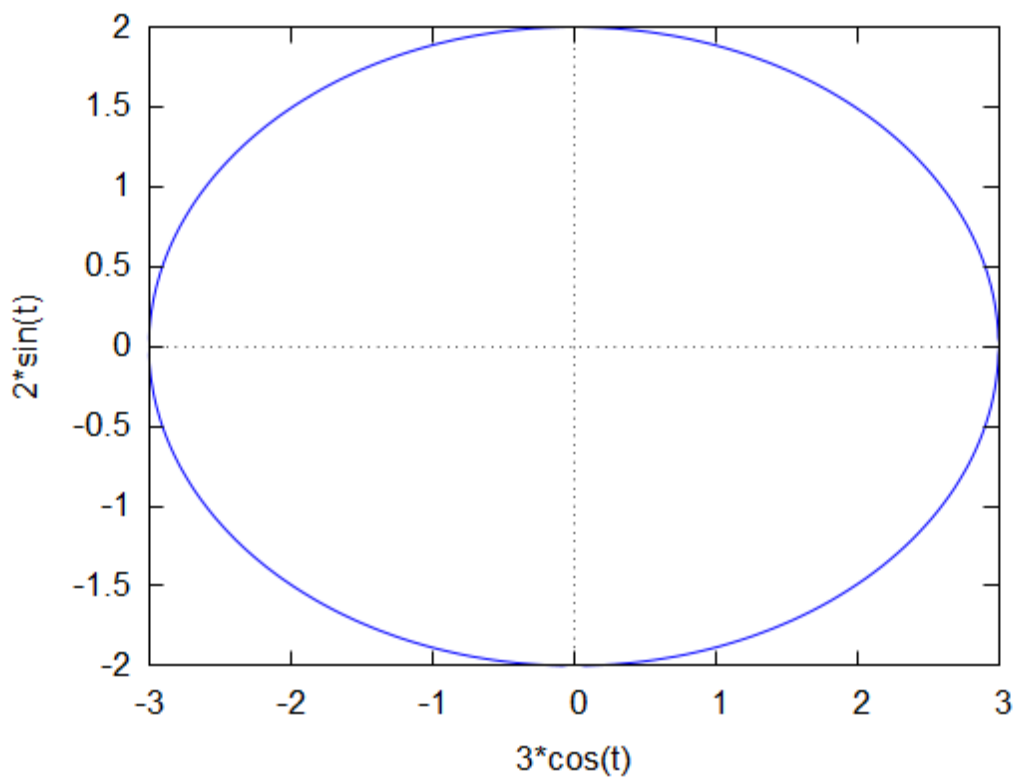
(%t13)
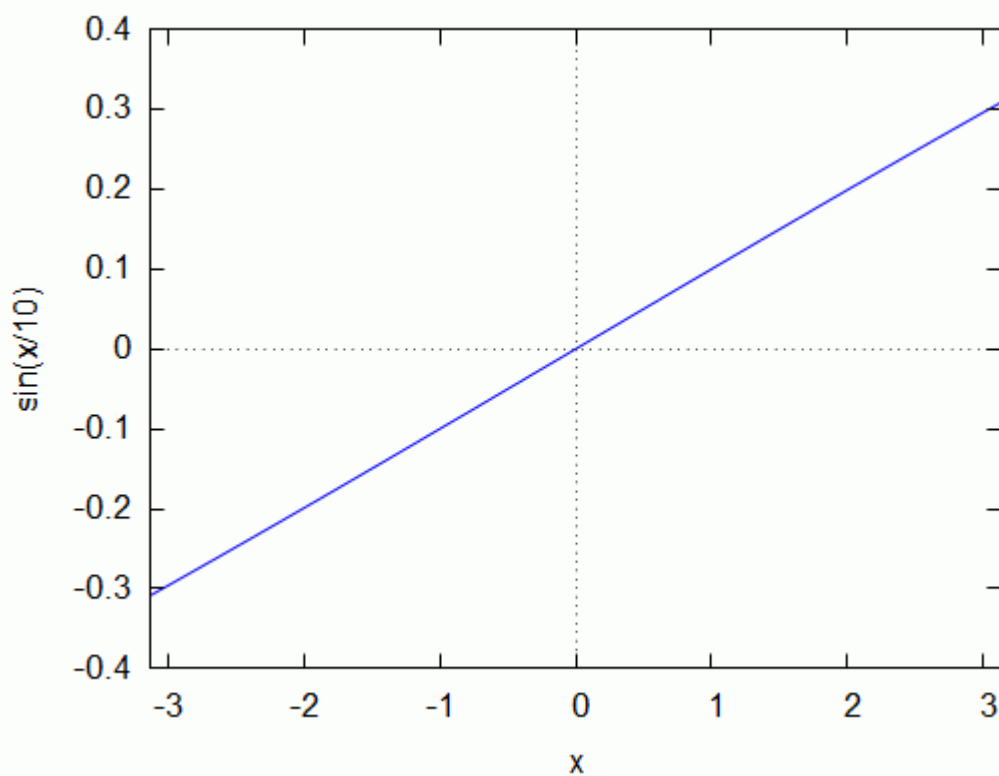
(%t14)

(%o14)

(%i15) wxplot2d ([parametric , 3 · cos (t) , 2 · sin (t) , [t , − %pi , %pi]]) ;
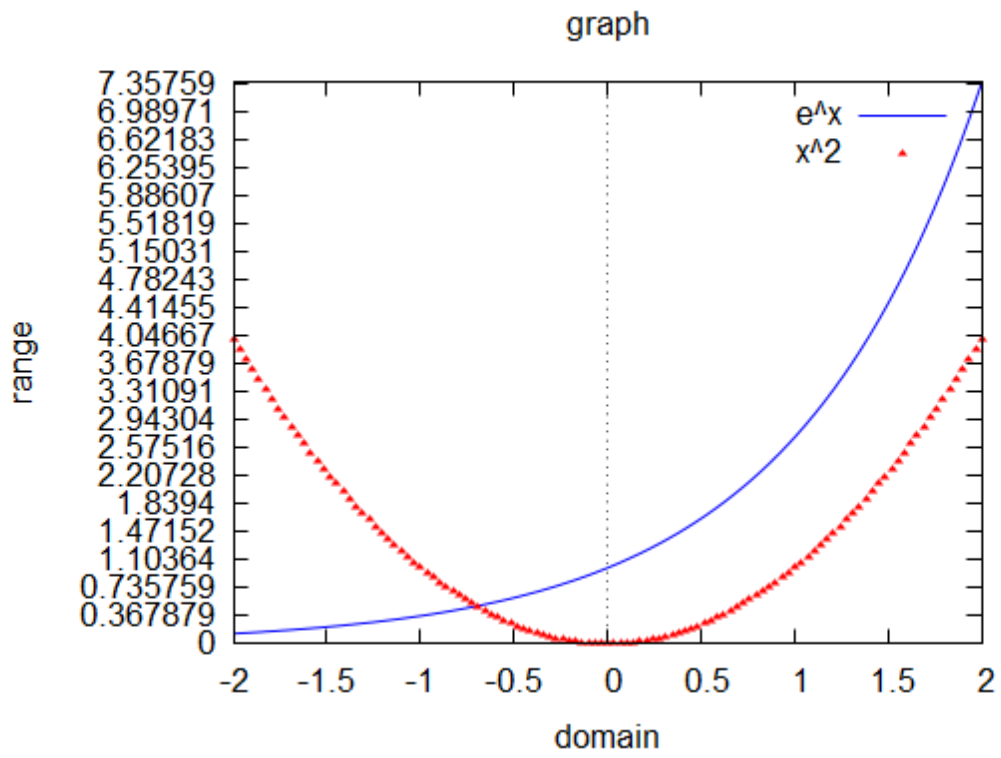
(%t15)

(%o15)

(%i16) wxplot2d ([%e ^ x , x ^ 2] , [x , − 2 , 2] , [style , [lines , 1 , 1] , [points , 1 , 2 , 3]] ,
        [legend , "e^x" , "x^2"] , [title , "graph"] ,

[xtics , − 2 , 0 . 5 , 2] , [ytics , 0 , %e ^ − 1 , %e ^ 2] ,
[xlabel , "domain"] , [ylabel , "range"]) ;

(%t16)

graph

(%o16)