

$$= diff(f, x)$$
 0 (12)

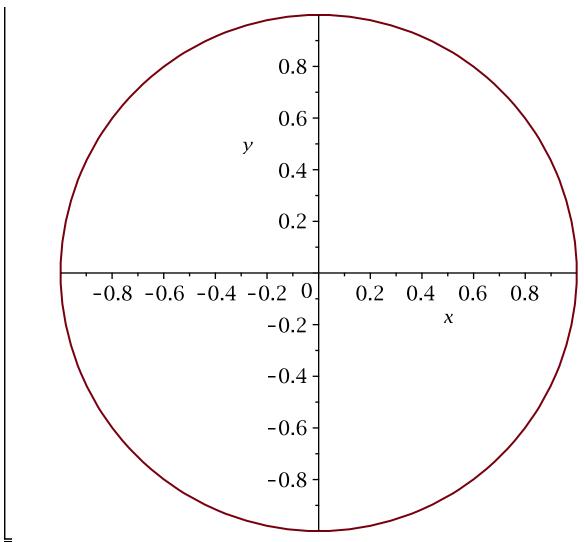
 \rightarrow diff(f(x), x)

$$-xe^{-\frac{x^2}{2}}$$
 (13)

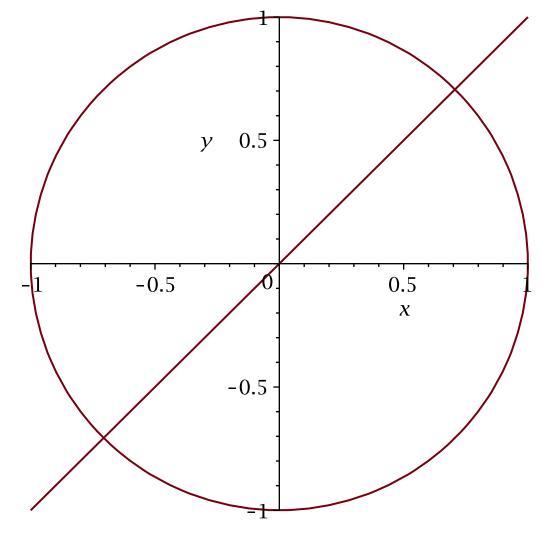
implicitplot(
$$x^2 + y^2 = 1$$
, $x = -1 ...1$, $y = -1 ...1$)
$$implicitplot(x^2 + y^2 = 1, x = -1 ...1, y = -1 ...1)$$
(14)

with(plots, implicitplot)

> implicit plot $(x^2 + y^2 = 1, x = -1..1, y = -1..1)$



> implicitplot([$x^2 + y^2 = 1, y = x$], x = -1..1, y = -1..1)



>
$$e2 := [0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100]$$

 $e2 := [0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100]$ (16)

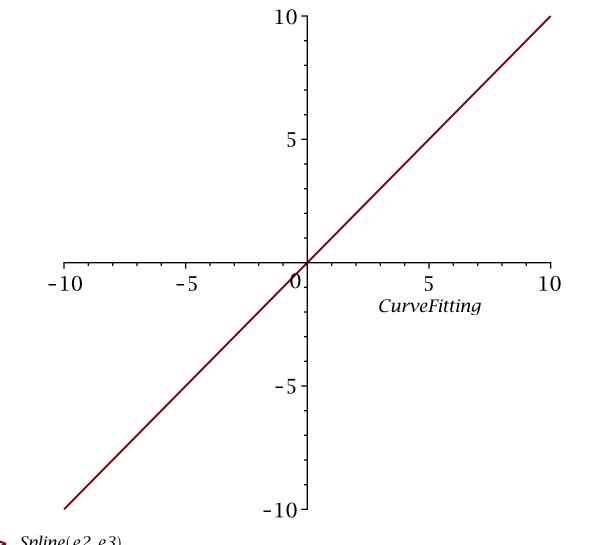
>
$$e3 := [0, 1.89, 2.88, 3.78, 4.64, 5.47, 6.29, 7.10, 7.92, 8.75, 9.58]$$

 $e3 := [0, 1.89, 2.88, 3.78, 4.64, 5.47, 6.29, 7.10, 7.92, 8.75, 9.58]$ (17)

>
$$e4 := CurveFitting: Spline(e2, e3, x)$$

 $Spline([10, 20, 30, 40, 50, 60, 70, 80, 90, 100], e3, x)$ (18)

> *plot*(*e*4)



> Spline(e2, e3) Spline([10, 20, 30, 40, 50, 60, 70, 80, 90, 100], e3) (19)

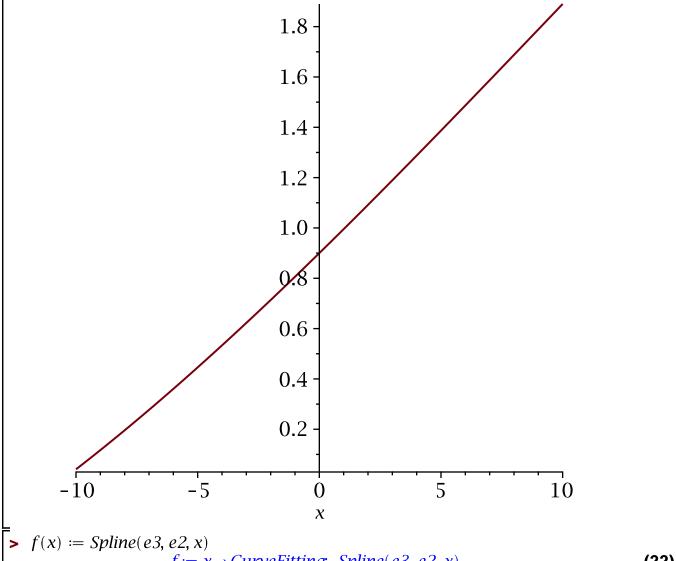
> with(CurveFitting)

[ArrayInterpolation, BSpline, BSplineCurve, Interactive, LeastSquares, Lowess, PolynomialInterpolation, RationalInterpolation, Spline, ThieleInterpolation]

>
$$f(x) := Spline(e2, e3, x)$$

 $f := x \rightarrow CurveFitting.-Spline(e2, e3, x)$ (21)

> plot(f(x))



> f(x) := Spline(e3, e2, x) $f := x \rightarrow CurveFitting.-Spline(e3, e2, x)$ (22)

> plot(f(x), x = 0..10)

