

[(1)

> dsolve(diff(u(x), x\$2) + 5*diff(u(x), x) - 7*u(x) = 5*cos(x) - 7*sin(x), u(x))

$$u(x) = e^{\frac{(-5 + \sqrt{53})x}{2}} c_2 + e^{-\frac{(5 + \sqrt{53})x}{2}} c_1 - \frac{5 \cos(x)}{89} + \frac{81 \sin(x)}{89} \quad (2)$$

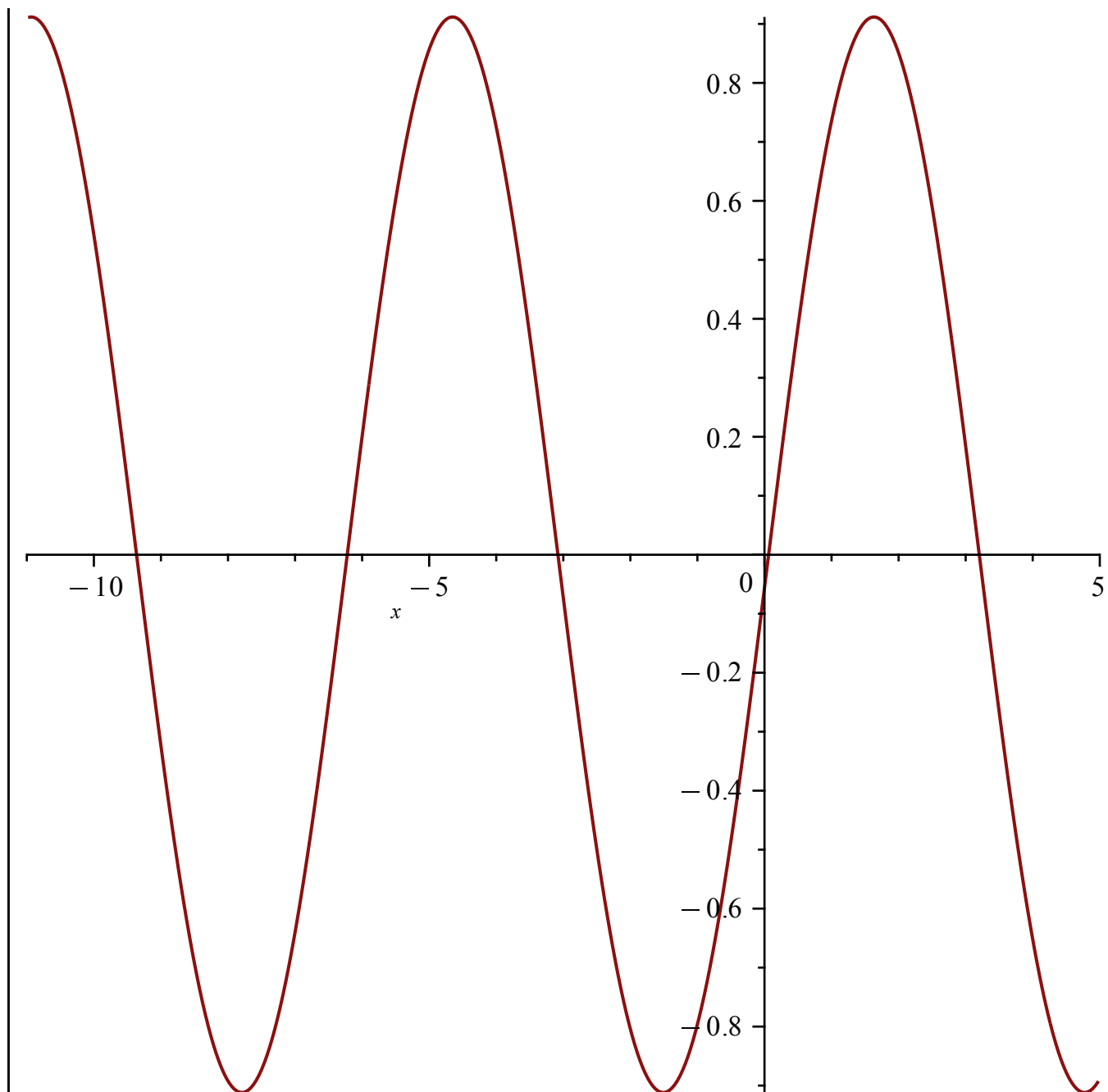
> eq := - \frac{5 \cos(x)}{89} + \frac{81 \sin(x)}{89}

$$eq := - \frac{5 \cos(x)}{89} + \frac{81 \sin(x)}{89} \quad (3)$$

> eq

$$- \frac{5 \cos(x)}{89} + \frac{81 \sin(x)}{89} \quad (4)$$

> plot(eq, x = -11 .. 5)



$$\begin{aligned} & \text{> } f := x \mapsto -\frac{5 \cos(x)}{89} + \frac{81 \sin(x)}{89} \\ & \text{> } f := x \mapsto -\frac{5 \cdot \cos(x)}{89} + \frac{81 \cdot \sin(x)}{89} \end{aligned} \quad (5)$$

$$\begin{aligned} & \text{> } f(0) \\ & \quad -\frac{5}{89} \end{aligned} \quad (6)$$

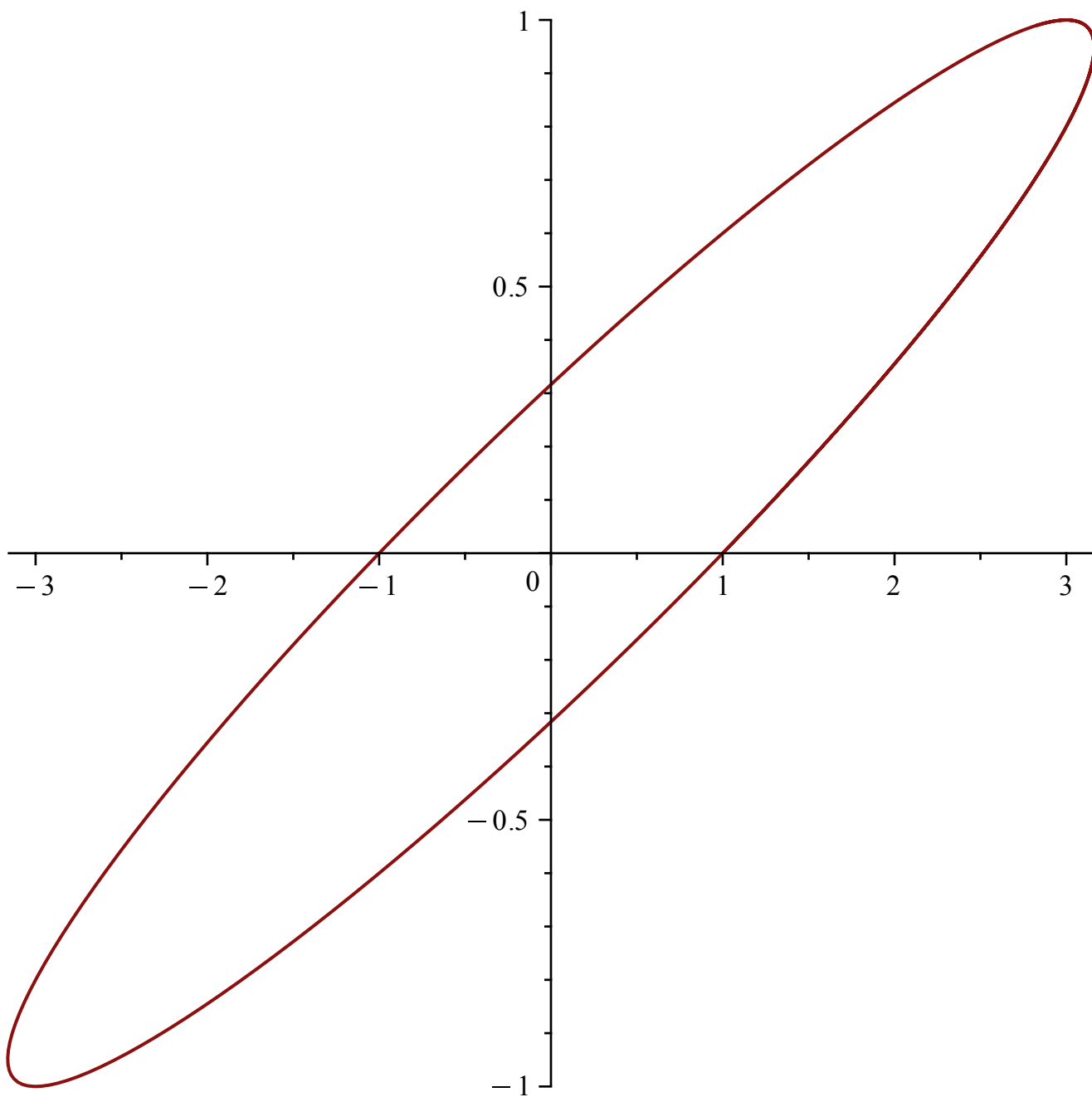
$$\begin{aligned} & \text{> } f\left(\frac{\text{Pi}}{2}\right) \\ & \quad \frac{81}{89} \end{aligned} \quad (7)$$

> $\text{evalf}\left(f\left(\frac{\text{Pi}}{2}\right)\right)$
0.9101123596 **(8)**

> $D(f)\left(\frac{\text{Pi}}{2}\right)$
 $\frac{5}{89}$ **(9)**

> $\text{evalf}\left(D(f)\left(\frac{\text{Pi}}{2}\right)\right)$
0.05617977528 **(10)**

> $\text{plot}([\cos(2 \cdot t) + 3 \cdot \sin(2 \cdot t), \sin(2 \cdot t), t = 0 .. 4])$



```
> with(LinearAlgebra) : with(VectorCalculus)
[&x, `*`, `+`, `^`, `.` , <, >, <|>, About, AddCoordinates, ArcLength, BasisFormat, Binormal, (11)
  ConvertVector, CrossProduct, Curl, Curvature, D, Del, DirectionalDiff, Divergence,
  DotProduct, Flux, GetCoordinateParameters, GetCoordinates, GetNames, GetPVDDescription,
  GetRootPoint, GetSpace, Gradient, Hessian, IsPositionVector, IsRootedVector, IsVectorField,
  Jacobian, Laplacian, LineInt, MapToBasis,  $\nabla$ , Norm, Normalize, PathInt, PlotPositionVector,
  PlotVector, PositionVector, PrincipalNormal, RadiusOfCurvature, RootedVector,
  ScalarPotential, SetCoordinateParameters, SetCoordinates, SpaceCurve, SurfaceInt,
  TNBFrame, TangentLine, TangentPlane, TangentVector, Torsion, Vector, VectorField,
  VectorPotential, VectorSpace, Wronskian, diff, eval, evalVF, int, limit, series ]
```

$$\begin{aligned} &> A := \text{Matrix}([[0, -1], [5, 0]]) \\ &A := \begin{bmatrix} 0 & -1 \\ 5 & 0 \end{bmatrix} \end{aligned} \quad (12)$$

$$\begin{aligned} &> \text{Determinant}(A) \\ &5 \end{aligned} \quad (13)$$

$$\begin{aligned} &> \text{Eigenvalues}(A) \\ &\begin{bmatrix} \text{I}\sqrt{5} \\ -\text{I}\sqrt{5} \end{bmatrix} \end{aligned} \quad (14)$$

$$\begin{aligned} &> \text{MatrixExponential}(t \cdot A) \\ &\begin{bmatrix} \cos(\sqrt{5} t) & -\frac{\sin(\sqrt{5} t) \sqrt{5}}{5} \\ \sin(\sqrt{5} t) \sqrt{5} & \cos(\sqrt{5} t) \end{bmatrix} \end{aligned} \quad (15)$$

$$\begin{aligned} &> f1 := (x, y) \mapsto 2 \cdot x + 3 \cdot y - 2 \cdot x \cdot y \\ &f1 := (x, y) \mapsto 2 \cdot x + 3 \cdot y + (-2 \cdot x \cdot y) \end{aligned} \quad (16)$$

$$\begin{aligned} &> f2 := (x, y) \mapsto 4 \cdot x + 6 \cdot y + x \cdot y^2 \\ &f2 := (x, y) \mapsto 4 \cdot x + 6 \cdot y + x \cdot y^2 \end{aligned} \quad (17)$$

$$\begin{aligned} &> \text{solve}(\{f1(x, y), f2(x, y)\}, \{x, y\}) \\ &\{x=0, y=0\}, \left\{x=\frac{6}{5}, y=-4\right\} \end{aligned} \quad (18)$$

$$\begin{aligned} &> Jm := \text{Jacobian}([f1(x, y), f2(x, y)], [x, y]) \\ &Jm := \begin{bmatrix} -2y + 2 & -2x + 3 \\ y^2 + 4 & 2xy + 6 \end{bmatrix} \end{aligned} \quad (19)$$

$$\begin{aligned} &> A := \text{subs}([x=0, y=0], Jm) \\ &A := \begin{bmatrix} 2 & 3 \\ 4 & 6 \end{bmatrix} \end{aligned} \quad (20)$$

$$\begin{aligned} &> \text{Eigenvalues}(A) \\ &\begin{bmatrix} 0 \\ 8 \end{bmatrix} \end{aligned} \quad (21)$$

$$\begin{aligned} &> x := 'x' : eq := x^2 - 0.5 = x \\ &eq := x^2 - 0.5 = x \end{aligned} \quad (22)$$

$$\begin{aligned} &> \text{solve}(eq, x) \\ &1.366025404, -0.3660254038 \end{aligned} \quad (23)$$

$$\begin{aligned} &> f := x \mapsto x^2 - 0.5 \\ &f := x \mapsto x^2 - 0.5 \end{aligned} \quad (24)$$

$$\begin{aligned} &> x := 0 \end{aligned} \quad (25)$$

```

x := 0
> for i from 1 to 100 do x := f(x) : psi(i) := x; od
x := -0.5
psi(1) := -0.5
x := -0.25
psi(2) := -0.25
x := -0.4375
psi(3) := -0.4375
x := -0.30859375
psi(4) := -0.30859375
x := -0.4047698975
psi(5) := -0.4047698975
x := -0.3361613301
psi(6) := -0.3361613301
x := -0.3869955601
psi(7) := -0.3869955601
x := -0.3502344365
psi(8) := -0.3502344365
x := -0.3773358395
psi(9) := -0.3773358395
x := -0.3576176642
psi(10) := -0.3576176642
x := -0.3721096063
psi(11) := -0.3721096063
x := -0.3615344409
psi(12) := -0.3615344409
x := -0.3692928480
psi(13) := -0.3692928480
x := -0.3636227924
psi(14) := -0.3636227924
x := -0.3677784648
psi(15) := -0.3677784648
x := -0.3647390008
psi(16) := -0.3647390008
x := -0.3669654613
psi(17) := -0.3669654613

```

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 $x := -0.3660254038$
 $\psi(89) := -0.3660254038$

```

x := -0.3660254038
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x := -0.3660254038
ψ(91) := -0.3660254038
x := -0.3660254038
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ψ(93) := -0.3660254038
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ψ(95) := -0.3660254038
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ψ(97) := -0.3660254038
x := -0.3660254038
ψ(98) := -0.3660254038
x := -0.3660254038
ψ(99) := -0.3660254038
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ψ(100) := -0.3660254038

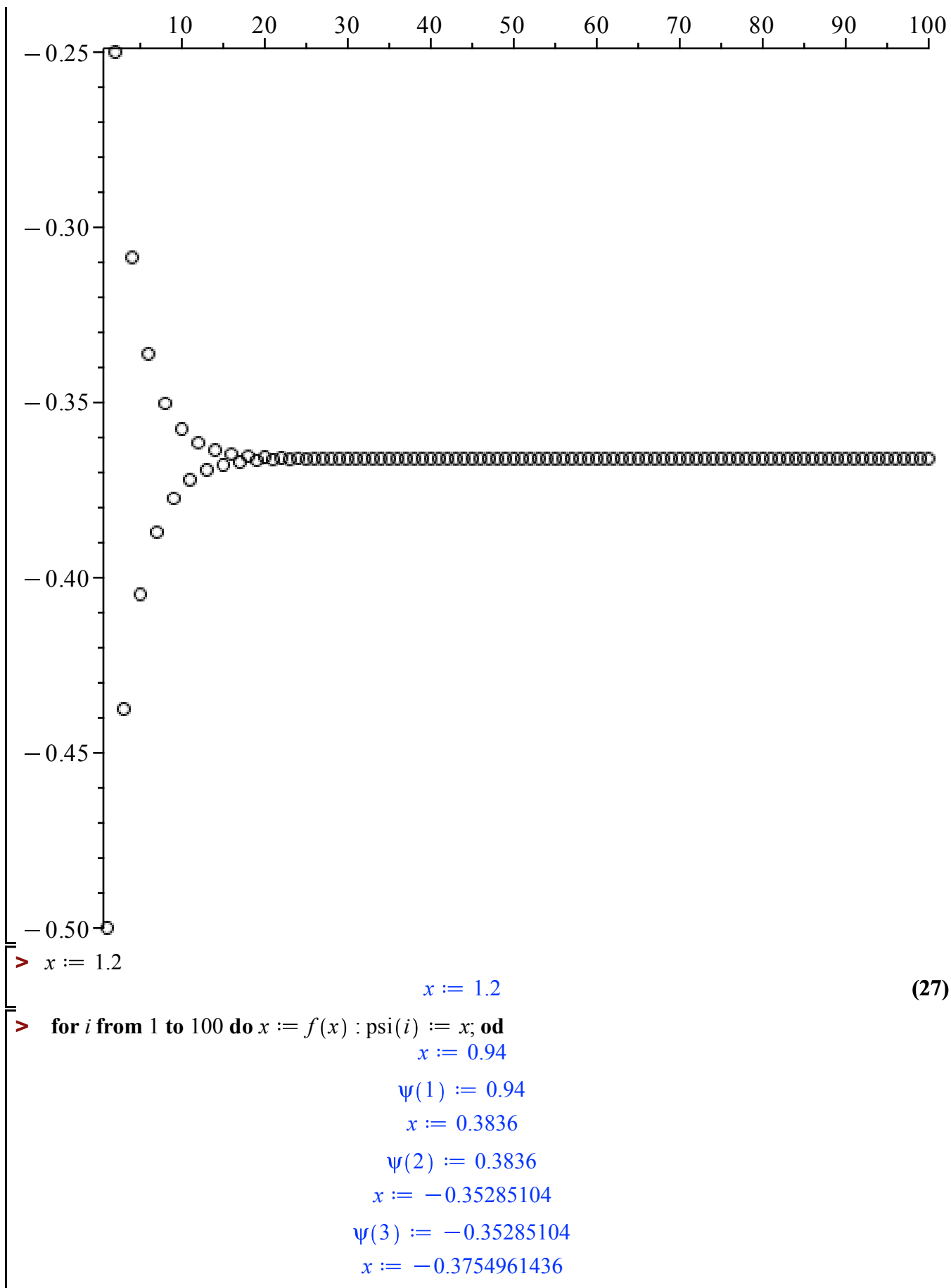
```

(26)

```

> points := [[n, psi(n)]$n = 1..100]: with(plots): pointplot(points, symbol = circle)

```



$\psi(4) := -0.3754961436$
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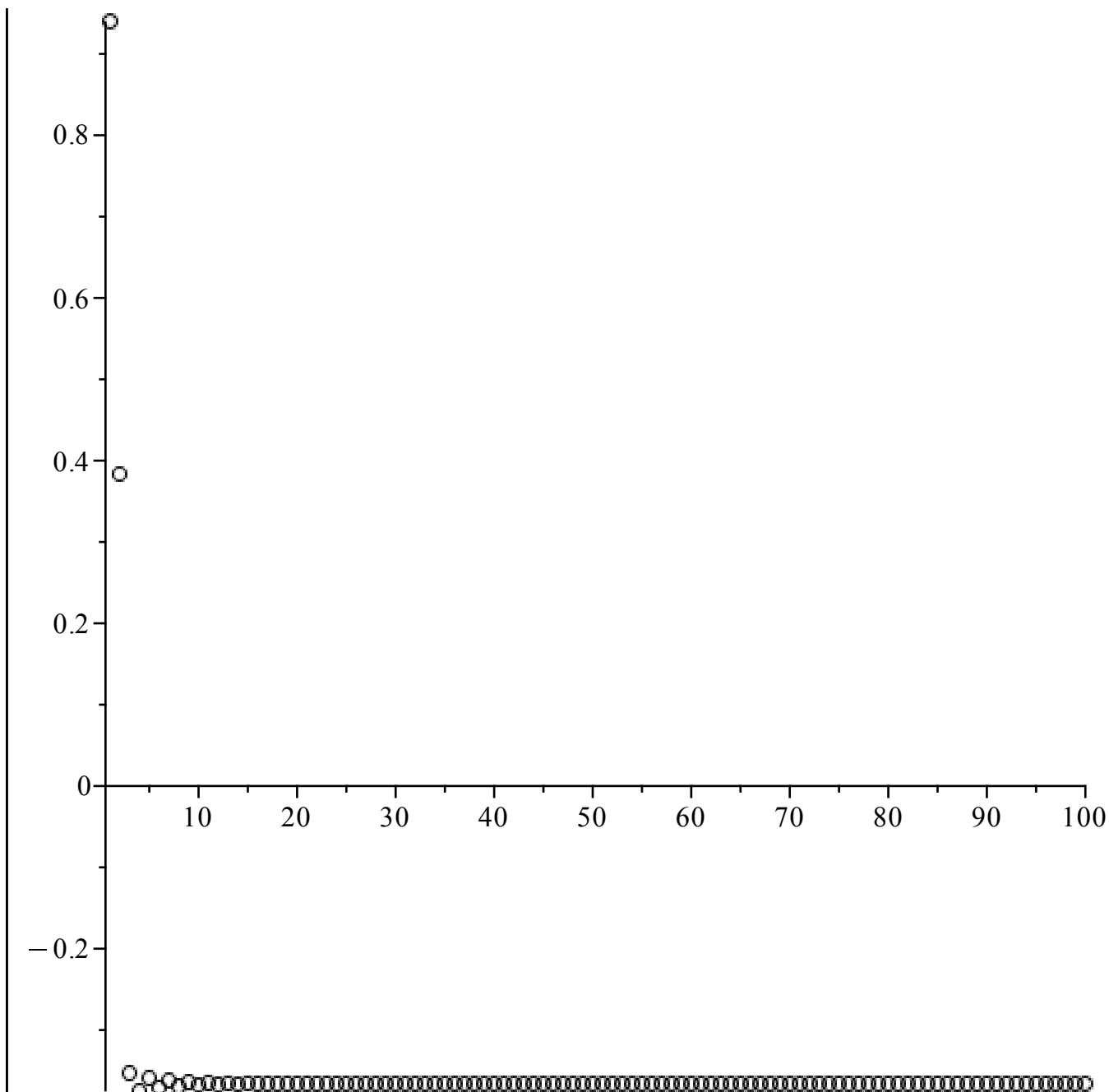
$\psi(99) := -0.3660254038$

$x := -0.3660254038$

$\psi(100) := -0.3660254038$

(28)

$\text{> } points := [[n, \psi(n)] : n = 1 \dots 100] : \text{with}(plots) : \text{pointplot}(points, symbol = circle)$



```
> x := -1.1
```

```
x := -1.1
```

(29)

```
> for i from 1 to 100 do x := f(x) : psi(i) := x; od
```

```
x := 0.71
```

```
psi(1) := 0.71
```

```
x := 0.0041
```

```
psi(2) := 0.0041
```

```
x := -0.49998319
```

```
psi(3) := -0.49998319
```

```
x := -0.2500168097
```

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(30)

$\text{points} := [[n, \psi(n)] \mid n = 1 \dots 100] : \text{with}(\text{plots}) : \text{pointplot}(\text{points}, \text{symbol} = \text{circle})$

