$$il := int\left(\frac{\sin(x)}{x}, x = -5..5\right)$$

$$evalf(i1, 3)$$

$$iI := 2\operatorname{Si}(5) \tag{1}$$

with(Student[LinearAlgebra]): with(LinearAlgebra): with(linalg):

> A := Matrix([[1, 7, 3, 3], [-2, 5, 1, 1], [1, 2, -2, 1], [1, -1, 3, 1]])

 \rightarrow eg := Eigenvalues (A)

(4) eg :=

$$sol2 := \left\{ x(t) = \frac{1}{\sqrt{(1 + e^{-t}) e^{-t}} \left(\frac{2\sqrt{(e^{-t})^2 + e^{-t}}}{e^{-t}} - \frac{3\sqrt{2}}{2} \right)}, y(t) = \frac{1}{1 + e^{-t}} \right\}$$
 (15)

 $\rightarrow x1_sol := rhs(sol1[1]);$

1]);
$$xI_sol := \frac{e^{-t}}{2\sqrt{(1+e^{-t})e^{-t}}\sqrt{(e^{-t})^2 + e^{-t}}}$$
(16)

 \nearrow $y1_sol := rhs(sol1[2]);$

$$yl_sol := \frac{1}{1 + e^{-t}}$$
 (17)

 $\rightarrow x2_sol := rhs(sol2[1]);$

$$x2_sol := \frac{1}{\sqrt{(1 + e^{-t}) e^{-t}} \left(\frac{2\sqrt{(e^{-t})^2 + e^{-t}}}{e^{-t}} - \frac{3\sqrt{2}}{2} \right)}$$
 (18)

 \rightarrow y2_sol := rhs(sol2[2]);

$$y2_sol := \frac{1}{1 + e^{-t}}$$
 (19)

 $plot([x1_sol, y1_sol, t = 0..20])$



