

$$\underline{F}(t, \underline{x}) := \begin{bmatrix} x_0 \cdot x_1 + 2x_1 + (x_0)^2 + (x_1)^2 - 1 \\ -(x_0)^2 - 2 \cdot x_0 \end{bmatrix}$$

$$\underline{V1} := \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$

$$\underline{X1} := \text{rkfixed}(\underline{V1}, 0, 20, 500, \underline{F})$$

$$\underline{V2} := \begin{pmatrix} 0 \\ -0.4 \end{pmatrix}$$

$$\underline{X2} := \text{rkfixed}(\underline{V2}, 0, 10, 500, \underline{F})$$

$$\underline{V3} := \begin{pmatrix} 1.2 \\ 0 \end{pmatrix}$$

$$\underline{X3} := \text{rkfixed}(\underline{V3}, 0, 10, 500, \underline{F})$$

$$\underline{V4} := \begin{pmatrix} 0 \\ 0.46 \end{pmatrix}$$

$$\underline{X4} := \text{rkfixed}(\underline{V4}, 0, 20, 500, \underline{F})$$

$$\underline{V5} := \begin{pmatrix} -2.5 \\ -2.5 \end{pmatrix}$$

$$\underline{X5} := \text{rkfixed}(\underline{V5}, 0, 40, 500, \underline{F})$$

$$\underline{V6} := \begin{pmatrix} 0 \\ -1 - \sqrt{2} + 0.001 \end{pmatrix}$$

$$\underline{X6} := \text{rkfixed}(\underline{V6}, 0, -4, 500, \underline{F})$$

$$\underline{V7} := \begin{pmatrix} 0 \\ -1 - \sqrt{2} + 0.001 \end{pmatrix}$$

$$\underline{X7} := \text{rkfixed}(\underline{V7}, 0, 20, 500, \underline{F})$$

$$\underline{V8} := \begin{pmatrix} -0.75 \\ -2.7 \end{pmatrix}$$

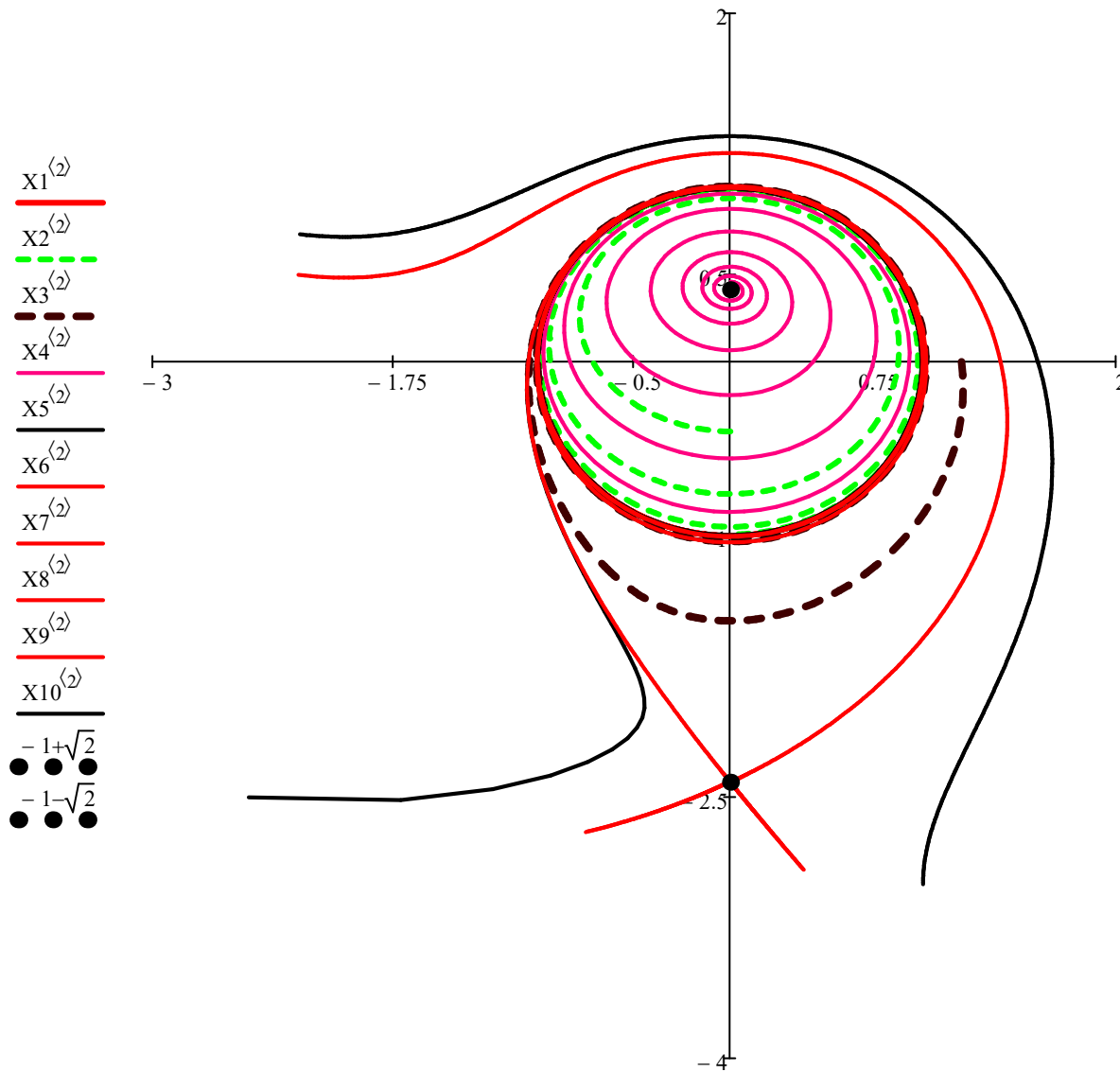
$$\underline{X8} := \text{rkfixed}(\underline{V8}, 0, 1, 500, \underline{F})$$

$$\underline{V9} := \begin{pmatrix} 0.01 \\ -2.42 \end{pmatrix}$$

$$\underline{X9} := \text{rkfixed}(\underline{V9}, 0, 2.7, 500, \underline{F})$$

$$\underline{V10} := \begin{pmatrix} 1 \\ -3 \end{pmatrix}$$

$$\underline{X10} := \text{rkfixed}(\underline{V10}, 0, -2, 500, \underline{F})$$



$$X1^{(1)}, X2^{(1)}, X3^{(1)}, X4^{(1)}, X5^{(1)}, X6^{(1)}, X7^{(1)}, X8^{(1)}, X9^{(1)}, X10^{(1)}, 0, 0$$