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Problem 1. Show that an implicit function theorem is satisfied in solving the initial value problem

$$\begin{cases} y' = y^2 - 2y + 1 & y(0) = 1 \end{cases}$$

around the solution $y^*(t) = 1 + t$ for $t \in (-1, 1)$.

Solution. Let $F(t, y) = y^2 - 2y + 1$ and $G(t, y) = y - 1 - t$.

Then

$$\begin{aligned} F(0, 1) &= 1^2 - 2 \cdot 1 + 1 = 0 \\ F_y(0, 1) &= 2 \cdot 1 - 2 = 0 \\ G(0, 1) &= 1 - 1 - 0 = 0 \\ G_y(0, 1) &= 1 \neq 0 \end{aligned}$$

Therefore, since $G_y(0, 1) \neq 0$, the implicit function theorem is satisfied in solving the initial value problem

$$\begin{cases} y' = y^2 - 2y + 1 \\ y(0) = 1 \end{cases}$$

for $t \in (-1, 1)$.

Since $y^*(t) = 1 + t$ is the only solution, the implicit function theorem is satisfied in solving the initial value problem

□

Problem 2. Show that F_y satisfies the conditions for F in the implicit function theorem that the IVP is an implicit initial value problem and solve it.

$$\begin{cases} y' = y^2 - 2y + 1 \\ y(0) = 1 \end{cases}$$

Solution. Let

Problem 3.

Let $F(t, y) = y^2 - 2y + 1$ and $G(t, y) = y - 1 - t$.

$$\begin{aligned} F(0, 1) &= 1^2 - 2 \cdot 1 + 1 = 0 \\ F_y(0, 1) &= 2 \cdot 1 - 2 = 0 \end{aligned}$$

Therefore, since $G_y(0, 1) \neq 0$, the implicit function theorem is satisfied in solving the initial value problem

$$\begin{cases} y' = y^2 - 2y + 1 \\ y(0) = 1 \end{cases}$$

□

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