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3.1.4 Finger Exercise: Python implementation for RHS of IVP

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Finger Exercises 1 due Aug 3, 2023 05:00 IST Completed

M02.3

M02.4

Let's consider how we might implement the calculation of $\underline{f}(\underline{u}, t)$ for the following IVP with two states $\underline{u} = [v, w]$ for which the governing differential equations are

$$\frac{dv}{dt} = -100v + w + t \tag{3.3}$$

$$\frac{dw}{dt} = -v + 2w - t^3 \tag{3.4}$$

where t is time. Write a function named `evalf` described by the doc string (see the provided Python code) which returns \underline{f} using our standard notation that $d\underline{u}/dt = \underline{f}(\underline{u}, t)$.

Problem: RHS of IVP (External resource) (5.0 / 5.0 points)

This will launch an external site that will require forwarding of your username.

Launch external site for submission and grading of Python code ↗

SOLUTION: The solution will be available shortly after the due date in Section [3.2.4](#).

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