









2nd-order initial-value problems

Approximating solutions to higher-order initial-value problems

• For example,

}

$$\mathbf{w}(t) = \begin{pmatrix} w_0(t) \\ w_1(t) \end{pmatrix} \quad \mathbf{w}^{(1)}(t) = \begin{pmatrix} w_1(t) \\ f(t, w_0(t), w_1(t)) \end{pmatrix} \quad \mathbf{w}(t_0) = \begin{pmatrix} y_0 \\ y_0^{(1)} \end{pmatrix}$$























