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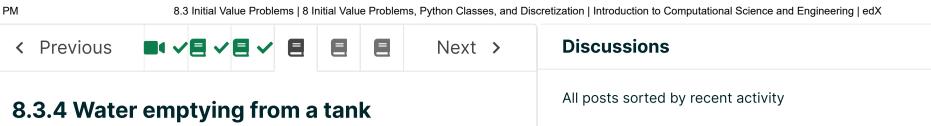
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MO2.4

For the water tank example in Section 8.2.5, dividing Equation (8.24) by $oldsymbol{A_t}$ gives

$$\frac{\mathrm{d}h}{\mathrm{d}t} = -\frac{A_o}{A_t} \sqrt{2gh} \tag{8.42}$$

which in terms of the general IVP form gives a scalar (M=1) system of equations with

$$u = h. \quad f = -\frac{A_o}{\sqrt{2\sigma u}} \tag{8.43}$$

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