

[Submitting HW Tips](#)**HW #1**

- 1 **Section 1.1:** #1, 4, 13, 16, 18, **24**← Use **dfield** for this one.
- 2 **Section 1.2:** #1(b), 2(b), 7, 8, 9(a).
- 3 **Section 1.3:** #1, 2, 3, 4, 5, 10, 13, 14.
- 4 Verify that the equation $x^2 + y^2 - x^4 e^{2y} = C$ defines an implicit solution to the differential equation

$$\frac{dy}{dx} = \frac{2x^3 e^{2y} - x}{y - x^4 e^{2y}}.$$