Homework #3

Part A

| §2.3 | #1, 2, 16(a)(b), 17(a)(b), 18(a). |

Part B

B-1: Find an *explicit solution* to:
$$\begin{cases} \dfrac{dy}{dx} = \dfrac{y + \sqrt{x^2 - y^2}}{x} \\ y(1) = \frac{1}{2} \end{cases} \quad (x > 0).$$