

Homework #2

Part A

§2.1	#6, 9, 12, 15, 18.
§2.2	#4, 10(a)(c), 13(a)(c), 16(a)(c), 18, 19, 28(a)(b).

Part B

B-1: Solve this Initial Value Problem (IVP):
$$\begin{cases} \frac{dy}{dx} = \frac{8x^2 - y^2}{xy} \\ y(1) = 2 \end{cases}$$

B-2: If
$$\begin{cases} x \frac{dy}{dx} + 6y = 3xy^{\frac{4}{3}} \\ y(1) = -1 \end{cases}$$
, then find $y(2)$.