

Sec. 1.6: problems 45, 46, 51.

Hint to Problem 1.6/45: To obtain the answer in the book, use the trigonometric identity

$$\sin(\alpha + \beta) = \sin \alpha \cos \beta + \cos \alpha \sin \beta .$$

Remark to Problem 1.6/51: The differential equation has singular solutions – find them!

Chapter 1, Review problems (page 78): problem 34.

Sec. 3.1: problems 5, 17, 19, 25, 35, 39, 45, 48.