

HOMEWORK 2

Due on Monday, April 13th, in class.

Exercise 1. From Section 2.4: solve exercises 14, 16, 27, 32, 33.

Exercise 2. From Section 2.6: solve exercises 9, 10, 22, 25, 27.

Exercise 3. From Section 2.8: solve exercises 5, 7.

Exercise 4. By using an integrating factor of the form y^m , make the equation

$$3x^2y' = 2xy + y^4 \cos(x)$$

exact. Then solve it.