

HOMEWORK 3

Instructions: Complete the following problems. You may not use a calculator except where explicitly stated. Remember that homework will be collected at the beginning of class on *Wednesday* February 1, and late homework is not accepted.

From Stewart's *Calculus: Concepts and Contexts*, do the following exercises:

- Section 2.3: 16, 20
- Section 2.4: 34, 35, 47
- Section 2.7: 2, 5, 8, 9(a), 16 (for $a = 1$), 17 (for $a = 2$), 20, 22

Be sure to justify your answers in the exercises from Section 2.4 (translation: you're going to use a theorem from that section, and you need to verify the hypotheses of the theorem before applying it).