

The University of Texas at Austin
HOMEWORK ASSIGNMENT 6
Predictive Analytics

February 23, 2026

Instructions: Provide your complete solution to the following problems. Final answers only, without appropriate justification, will receive zero points even if correct.

Problem 6.1. ($4 \times 3 = 12$ points) Solve Problem 2.4.2 from the textbook (pp.52-53).

Problem 6.2. ($4 + 4 = 8$ points) Solve Problem 2.4.4 **(a) and (b)** from the textbook (p.53).

Problem 6.3. ($3 + 2 + 2 + 5 = 12$ points) Solve Problem 2.4.7 from the textbook (p.54).

Problem 6.4. ($4 \times 2 = 8$ points) Solve Problem 3.7.4 from the textbook (p.122).

Problem 6.5. (10 points) Solve Problem 4.8.1 from the textbook (p.189).