Study the following sections from the textbook:

If you have “Communication Systems, 4th edition, Haykin”:
Chapter 4: Baseband Pulse Transmission
   Section 4.1 Introduction
   Section 4.2 Matched Filter
   Section 4.3 Error Rate Due to Noise

If you have “Communication Systems, 5th edition, Haykin & Moher”:
Chapter 8: Baseband Digital Transmission
   Section 8.1 Introduction
   Section 8.2 Baseband Pulses and Matched Filter Detection
   Section 4.3 Probability of Error Rate Due to Noise

Answer the following questions from the textbook:

- Matched Filters

  (1) Problem 4.1 (4th ed.) = Problem 8.1 (5th ed.).
  (2) Problem 4.2 (4th ed.), does not exist in 5th ed.
  (3) Problem 4.3 (4th ed.) = Problem 8.4 (5th ed.).

- Probability of Error Calculation