

Math 1332 Exam 7

Wednesday, December 1

Name: _____

This is the exam for module 7. It is worth a total of 100 points. A scientific or four-function calculator is allowed, but no other electronic devices are permitted. Carefully read each question and understand what is being asked before you start to solve the problem. **Show your work in an orderly fashion, and circle or mark in some way your final answers.** For all problems, you can either give your answers in fractions, or as decimals.

$$P(\bar{A}) = 1 - P(A)$$

$$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$$

$$P(A | B) = \frac{P(A \text{ and } B)}{P(B)}$$

$$P(B) = P(B | A)P(A) + P(B | \bar{A})P(\bar{A})$$

$$P(A | B) = \frac{P(B | A)P(A)}{P(B)}$$