# Math 262 Reading Guide 

Read Sections 2.1 and 2.2, and answer the following questions. Hand in this worksheet at the next class.

1. What is the definition of a random variable?
2. Are the random variables in Examples 2.1 and 2.2 Bernoulli random variables? Why or why not?
3. What is the difference between discrete and continuous random variables?
4. What information is provided by the probability mass function (pmf) of a random variable $X$ ?
5. What information is provided by the cumulative distribution function (cdf) of a random variable $X$ ?
6. In Example 2.11, note that $F(8)-F(4)=p(8)$. Why is this? What is the meaning of the quantities $F(8), F(4)$, and $p(8)$ ?
