Math 262 Reading Guide Section 3.4.1

Read Section 3.4.1 and answer the following questions. Hand in this worksheet at the next class.

NAME

1.	What is the definition of the exponential distribution ? Sketch a graph of its pdf.
2.	What is another way of writing the exponential pdf, using the parameter β ?
3.	If X is an exponential random variable with parameter λ , what are the mean and standard deviation of X ?
4.	What are some things that are modeled by an exponential distribution?
5.	What does the memoryless property say about the exponential distribution?