Physics 4311: Thermal Physics
Spring ‘2016
19 January 2016

READING SCHEDULE: 19 -28 January

Tues. 19 Jan.:L1 - Chapter 1, Intro., Sec. 1.1, 1.2, 1.3, 1.4

Thurs. 21 Jan.:L2 - Ch. 1, Sec. 1.4, 1.5, 1.6, 1.7, 1.9

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Tues. 26 Jan.:L3 - Ch. 7, Sec. 7.13, Sec.7.9

Thurs. 28 Jan.:L4 - Ch. 7, Sec. 7.10, 7.11, 7.12

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Atomic Microscope Lab Report #1 due on Tues. 2 Feb.

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HW Set #1: Due on Thurs. 21 Jan. 5 PM

#1 Consider a game in which 4 true (6-sided) dice are rolled. Find the probability of obtaining:
(a) exactly one four (a single die with a 4 showing).
(b) at least one four.
(c) exactly two fours.
Express each answer as a decimal fraction.

#2 A number is chosen randomly between 0 and 1. What is the probability that exactly 3 of its
first 10 decimal places (in any order) consist of digits less than 3.

#3 Reif 1.4

#4 A basketball player makes 9 out of 10 free throws on average. Out of 10 free throws, what is
the probability that:
(a) the player misses none?
(b) the player misses 1?
(c) the player misses 2?
(d) the player misses at least 2?
Express each answer as a decimal fraction.