

The University of Portland
Donald P. Shiley School of Engineering

EGR361
Analysis of Engineering Data

HOMEWORK 4—Continuous & Discrete Random Variables & Probability: Normal and Binomial Distributions

Assigned: Wednesday, February 7, 2018
Due: Friday, February 16, 2018
Text: 3-4, 3-5, 3-7, 3-8
Midterm Exam: Friday, March 2, 2018 (closed-book, 1 crib-sheet, calculator)

Problems:

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|---------------------------|----------------------------|
| 1) Text, 3-21 (page 72) | 2) Text, 3-22 (page 72) |
| 3) Text, 3-25 (page 72) | 4) Text, 3-33 (page 73) |
| 5) Text, 3-46 (page 90) | 6) Text, 3-50 (page 90) |
| 7) Text, 3-93 (page 101) | 8) Text, 3-98 (page 101) |
| 9) Text, 3-106 (page 108) | 10) Text, 3-111 (page 108) |

Resources for further reading:

<https://www.mathsisfun.com/data/random-variables-continuous.html>

<https://www.mathsisfun.com/data/standard-normal-distribution.html>

https://www.probabilitycourse.com/chapter3/3_1_3_pmf.php

<https://www.mathsisfun.com/data/binomial-distribution.html>

Happy Double Consecutive e Days!
February 7, 2018 (2/7/18) & February 8, 2018 (2/8/18)
 $e \approx 2.7182818$