

**Part 1: Multiple Choice.** Circle the letter corresponding to the best answer.

- The heights of American men aged 18 to 24 are approximately Normally distributed with a mean of 68 inches and a standard deviation of 2.5 inches. Only about 5% of young men have heights outside the range
  - 65.5 inches to 70.5 inches
  - 63 inches to 73 inches
  - 60.5 inches to 75.5 inches
  - 58 inches to 78 inches
  - none of the above
- Use the information in the previous problem. About what percentage of the men are over 70.5 inches tall?
  - 2.5
  - 5
  - 16
  - 32
  - 68
- For the density curve shown to the right, which statement is true?
  - The area under the curve between 0 and 1 is 1.
  - The density curve is symmetric.
  - The density curve is skewed right.
  - The density curve is Normal.
  - None of the above is correct.
- For the density curve shown in Question 3, which statement is true?
  - The mean and median are equal.
  - The mean is greater than the median.
  - The mean is less than the median.
  - The mean could be either greater than or less than the median.
  - None of the above is correct.
- The area under the standard Normal curve corresponding to  $-0.3 < Z < 1.6$  is
  - 0.3273
  - 0.4713
  - 0.5631
  - 0.9542
  - none of the above



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**Chao Zhang**



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