

**Math 1313 Online**  
**Week 14**  
**Popper 25(Monday's Lecture)**

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Instructions

- Homework will NOT be accepted through email or in person. Poppers must be submitted through CourseWare. BEFORE the deadline.
  - Submit the completed assignment at <http://www.casa.uh.edu> under "EMCF" and choose Popper 25.
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1. Do not ask on the discussion board, what was the answer to question 1 from Monday's lecture, so mark the same answer according to the video?
2. Do not ask on the discussion board, what was the answer to question 2 from Monday's lecture, so mark the same answer according to the video?
3. Let  $Z$  be the standard normal variable. Find  $P(Z > 0.22)$ 
  - a. 0.6578
  - b. 0.2879
  - c. 0.4129
  - d. 0.5488
  - e. 0.7602
4. Let  $Z$  be the standard normal variable. Find the value of  $z$  if  $z$  satisfies  $P(Z > z) = 0.7054$ .
  - a. 0.46
  - b. -0.46
  - c. -0.54
  - d. 1.24
  - e. None of the above
5. Suppose  $X$  is a normal random variable with mean of 560 and standard deviation 40. Find the probability of more than 510.
  - a. 0.1248
  - b. 0.8944
  - c. 0.6514
  - d. 0.3486
  - e. None of the above