1. We simulated 5 different distributions using WinGen: uniform, normal, inverted, left skewed and right skewed. We used 10000 examinees for each, with the theta scores having a normal distribution of mean 0 and SD=1. Each distribution had the following item parameters:
   1. Uniform:
      1. Min=-3, Max=3
   2. Normal:
      1. Mean= 0, SD=1
   3. Inverted:
      1. a=0.3, b=0.3
   4. Positive Skewed:
      1. a=4, b=1
   5. Negative Skewed:
      1. a=1, b=4
2. We found a relationship between the slope and the ability (thetas). In WinGen the thetas are generated differently, with more variability. The more variability, the smaller the slope.