1. [10 points] Suppose that we have 15 women and 10 men in a room. We want to make a committee of 6. What is the probability that there is at least 2 women in the committee?
Answers

1. \[ 1 - \frac{\binom{10}{6}}{\binom{25}{6}} - \frac{\binom{10}{5} \binom{15}{1}}{\binom{25}{6}} \]