MATH 5010 – Quiz 3

Name:

Date:

1.19 From a group of 10 women and 13 men, a committee consisting of 3 women and 4 men is to be chosen. How many different committees are possible if three of the men hate each other and refuse to work with any of the other three.

$$\binom{10}{3}\binom{13}{4} - \binom{10}{3}\binom{3}{2}\binom{10}{2} - \binom{10}{3}\binom{3}{3}\binom{10}{1} = 68{,}400$$