

# ISYE 6739 Homework 1

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**2-19**

a)

**2-81**

**2-90**

**2-141**

**2-179**

**#2**

$$\binom{13}{1} \binom{4}{3} \binom{12}{2} \binom{4}{1}^2 = 54912$$

```
choose(13,1) * choose(4,3)*choose(12,2)*choose(4,1)^2
```

```
## [1] 54912
```