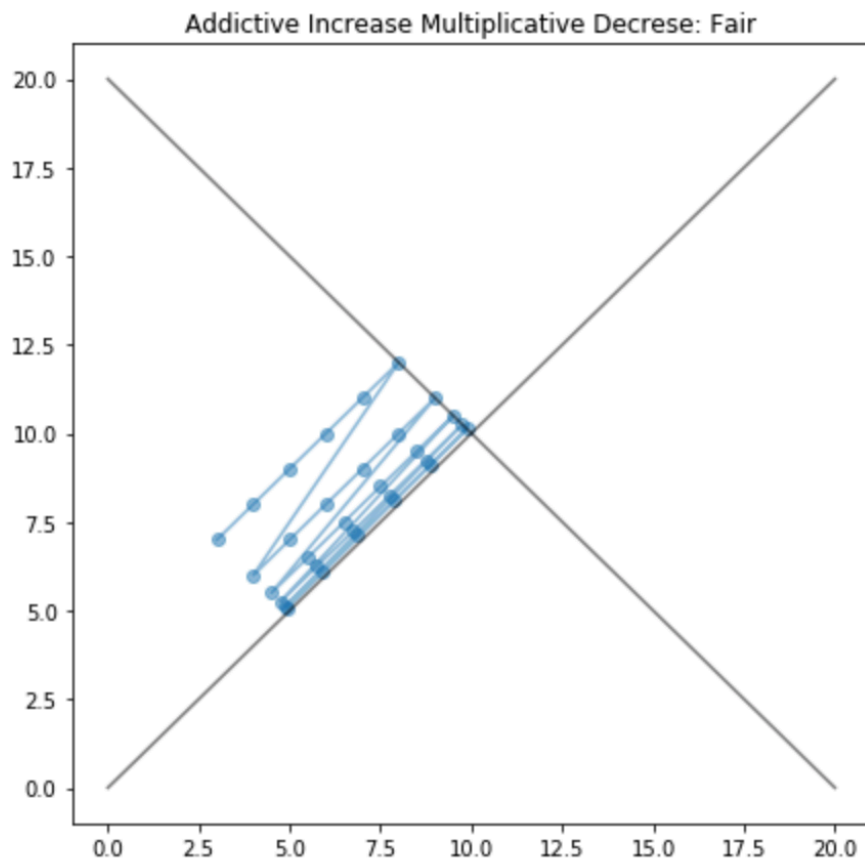
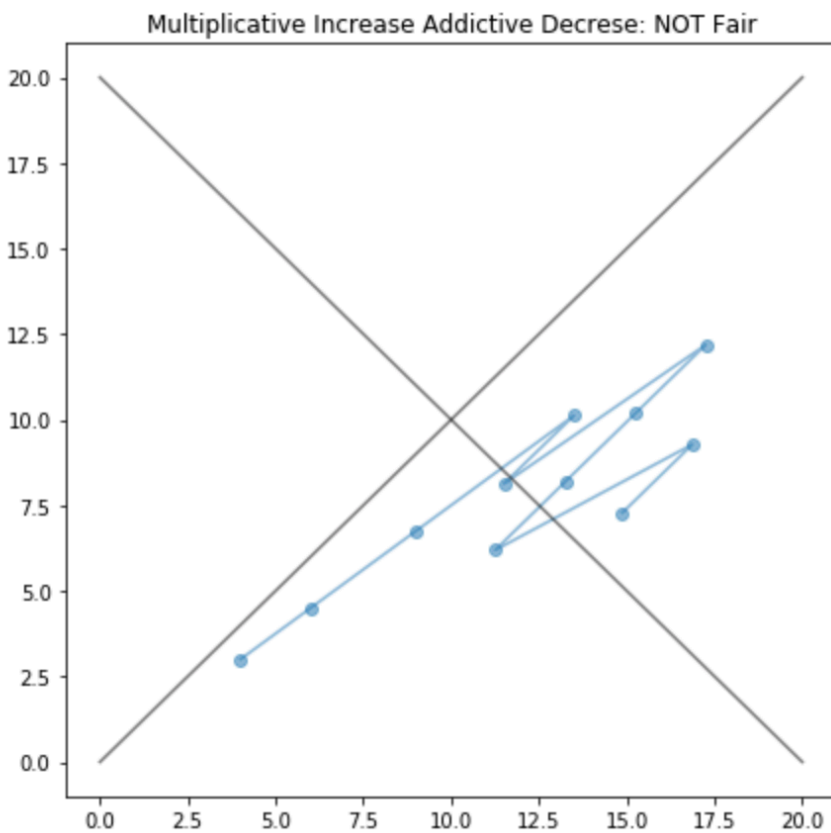


The result graph for each fair (unfair) way:

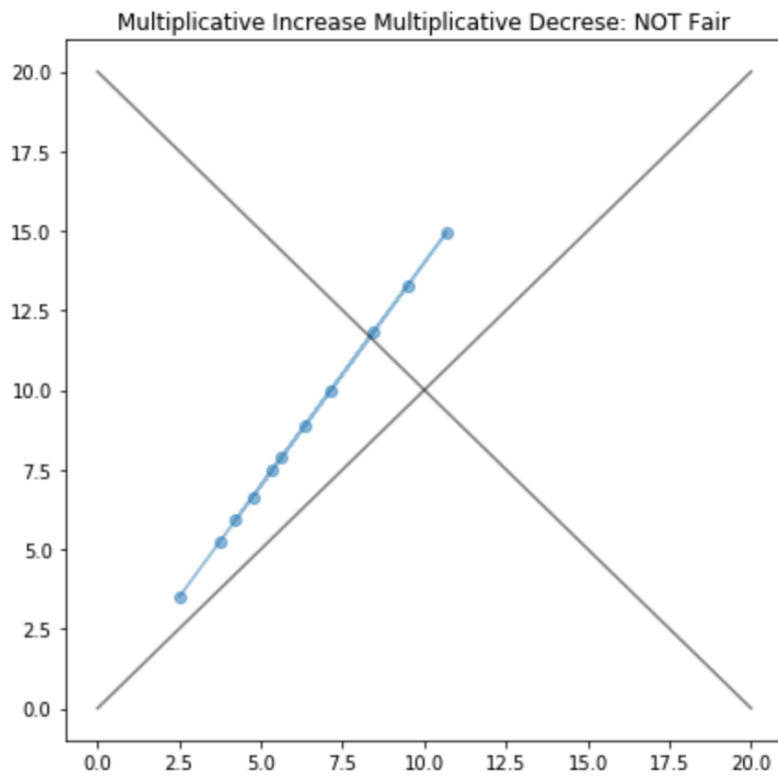
Addictive Increase Multiplicative Decrease:



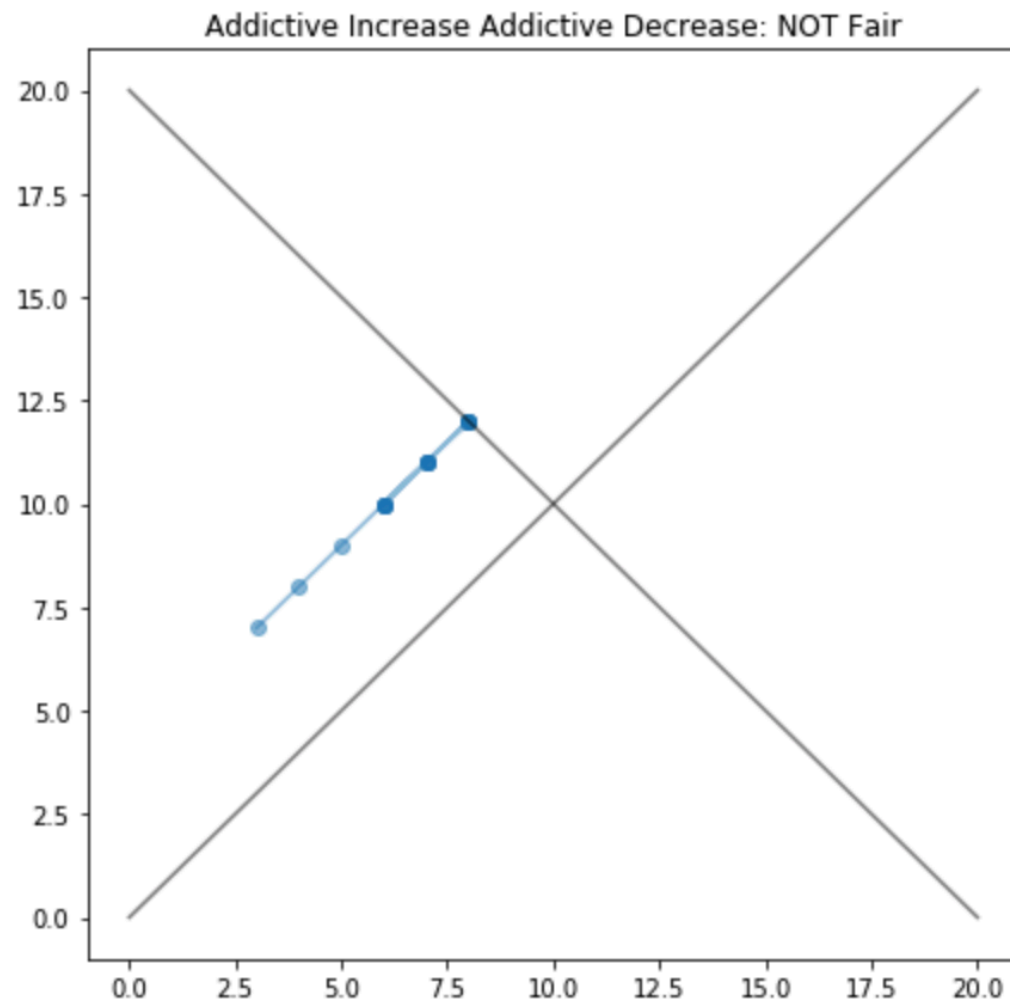
Multiplicative Increase Addictive Decrease:



Multiplicative Increase Multiplicative Decrease:



Addictive Increase Addictive Decrease:



**Explanation:**

According to the corresponding graph: we can find that Multiplicative Increase Additive Decrease, Multiplicative Increase Multiplicative Decrease, and Additive Increase, Additive Decrease are not fair because: they cannot approach the line of  $x=y$ , which indicates that  $x$  and  $y$  cannot have the same network resources.

The code for each graph is included in the TCP-fairness.ipynb file.