## 1. Welcome to CSE 311!

(a) Consider the term $N P$. Let $N=2$. Then, conveniently notice that:

$$
\begin{align*}
N P & =2 \cdot P  \tag{1}\\
& \neq P \tag{2}
\end{align*}
$$

We can see that there exists at least some case where $P \neq N P$.
(b) This is another part.

