Name:
Notice:

1. Please box your final answer.
2. Please stop writing when time is up.

Problem 1 (5 points):
Do Division Algorithm for $f(x)=3 x^{5}+4 x^{2}+1$ and $g(x)=x^{2}+1$ in $\mathbb{Z}_{5}[x]$.
$f(x)=g(x)\left(3 x^{3}+2 x+4\right)+3 x+2$

