Name:
Problem 1: Use the Euclidean Algorithm to compute (343, 280).

Note that you must use the Euclidean Algorithm to do this computation to receive credit for this problem.

Solution: We have

$$
\begin{aligned}
343 & =280 \cdot 1+63 \\
280 & =63 \cdot 4+28 \\
63 & =28 \cdot 2+7 \\
28 & =7 \cdot 4+0
\end{aligned}
$$

The last nonzero remainder is 7 , so $(343,280)=7$.

