Name:

Problem 1: *Use the Euclidean algorithm to find* $\gcd(272, 1479)$*.*

Solution: We have

$$
\begin{aligned}
1479 &= 5 \times 272 + 119 \\
272 &= 2 \times 119 + 34 \\
119 &= 3 \times 34 + 17 \\
34 &= 2 \times 17
\end{aligned}
$$

Therefore, $\gcd(272, 1479) = 17$.