1 Question 2.1

$$GCD(648, 124)$$

2 Solution

We can use the Euclidean algorithm to find the greatest common divisor of 648 and 124.

$$648 = 124 \times 5 + 28$$
$$124 = 28 \times 4 + 12$$
$$28 = 12 \times 2 + 4$$
$$12 = 4 \times 3 + 0$$

$$
\begin{aligned}
GCD(648, 124) &= GCD(124, 28) \\
&= GCD(28, 12) \\
&= GCD(12, 4) \\
&= GCD(4, 0) \\
&= 4
\end{aligned}
$$