A geometric sequence has second term 36 and fourth term 16. Find the first term.
_ $, 36, \stackrel{\times r}{6}, \frac{x r}{=} 16, \ldots$

$$
\begin{aligned}
36 \times r^{2} & =16 \\
r^{2} & =\frac{16}{36} \\
r^{2} & =\frac{4}{9}
\end{aligned}
$$

$$
r= \pm \sqrt{\frac{4}{9}}
$$

$$
r= \pm \frac{2}{3}
$$

$$
U_{2}=U_{1} \times r
$$

$$
U_{1}=U_{2} \div r
$$

$$
\begin{aligned}
& U_{1}=36 \div\left(\frac{2}{3}\right) \\
& U_{1}=36 \times\left(\frac{3}{2}\right)
\end{aligned}
$$

$$
U_{1}=54
$$

$$
U_{1}=36 \div\left(-\frac{2}{3}\right)
$$

$$
U_{1}=-54
$$

