$2 k+5, k+5, k-1$ are consecutive terms of a geometric sequence. Find $k$

$$
\begin{aligned}
& 2 k+5, k+5, k-1 \\
& \frac{k+5}{2 k+5}=\frac{k-1}{k+5} \\
& (k+5)(k+5)=(k-1)(2 k+5) \\
& k^{2}+5 k+5 k+25=2 k^{2}+5 k-2 k-5 \\
& k^{2}+10 k+25=2 k^{2}+3 k-5 \\
& 0=k^{2}-7 k-30 \\
& 0=(k-10)(k+3) \\
& \boldsymbol{k}=10, \boldsymbol{k}=-3 \\
& 2 k+5, k+5, k-1 \\
& \boldsymbol{k}=10 \\
& 2(\mathbb{1} 0)+5, \mathbb{1} 0+5, \mathbb{1} 0-1 \\
& 25,15,9
\end{aligned}
$$

$$
r=\frac{3}{5}
$$

$$
\boldsymbol{k}=-3
$$

$$
2(-3)+5,-3+5,-3-1
$$

$$
-1,2,-4
$$

$$
r=-2
$$

