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$$
\begin{aligned}
& \text { Abstract } \\
& \text { We study the invariant interval, the character of semicycles, the global stability, and the } \\
& \text { boundedness of the difference equation } \\
& \qquad x_{n+1}=\frac{x_{n}+p x_{n-k}}{x_{n}+q}, n \geq 0
\end{aligned}
$$

where the initial conditions $x_{-k}, \ldots, x_{-1}, x_{0}$ are nonnegative, and $p, q>0$.

