**Example 1 44 : As shown in Figure 3,** it is known that $A$, $B$, $C$ and $E$ share a circle, $A$, $B$, $F$ and $D$ share a circle, $E$, $F$ and $B$ share a line, $CE$ intersects $DF$ at $K$, Prove: $K$, $C$, $A$, $D$ four points share a circle.

$$\frac{\frac{D-F}{C-E}}{\frac{A-D}{C-A}}=\frac{B-F}{E-B}\frac{\frac{C-A}{A-B}\frac{D-F}{D-A}}{\frac{E-C}{E-B}\frac{F-B}{B-A}}.$$

Explanation: If $\angle CAD = 180^\circ$, then point $K$ is at infinity, $CE \parallel DF$. So it is the same as the previous question. This can be seen more clearly from the identity equation.