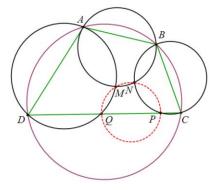
Example 2 23: As shown in the figure, the four points A, B, C, and D share a circle, the four points A, D, Q, and M share a circle, the four points P, C, B, and N share a circle, and A, M, N, and B The four points are in a circle, to prove: M, N, P, Q are in a circle.



$$\frac{\frac{M-N}{M-Q}}{\frac{P-N}{D-C}} \frac{\frac{B-C}{B-N}}{\frac{C-D}{P-N}} \frac{\frac{N-B}{M-N}}{\frac{A-B}{A-M}} \frac{\frac{Q-M}{D-C}}{\frac{A-D}{D-C}} = 1,$$