Since \( OM = OC \), it follows that from (1) and (2)
\[ \triangle OMB \equiv \triangle OCD. \]
Thus, \( \angle OBM = \angle ODC \); that is
\[ \angle OBC = \angle ODC. \]
Therefore, \( B, O, C, D \) are concyclic.

That completes this number. Send me your nice solutions, generalizations, and comments, as well as Olympiad Contests!

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Niels H. Abel (1802–1829)

This year is the 200\(^{th}\) anniversary of the birth of Niels Abel. Here are some quotations from him:

*If you disregard the very simplest cases, there is in all of mathematics not a single infinite series whose sum has been rigorously determined. In other words, the most important parts of mathematics stand without a foundation.*


“[A reply to a question about how he got his expertise:]”
*By studying the masters and not their pupils.*

“[About Gauss' mathematical writing style]”
*He is like the fox, who effaces his tracks in the sand with his tail.*