9-2 Tangents Worksheet II Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

$\overleftrightarrow{CB} and \overleftrightarrow{CD}$ are tangent to ⨀*O* at *B* and *D*, respectively. Complete.

*A*

*O*

*D*

*B*

*C*

1. If *OC* = 15 and *OB* = 9, then *BC* = \_\_\_\_\_.
2. If *OC* = $3\sqrt{6}$ and *BC* = 6, then *OB* = \_\_\_\_\_.
3. If *AB* = 12 and *BC* = 8, then *OC* = \_\_\_\_\_.
4. If *OC* = $2\sqrt{17}$ and *BC* = $5\sqrt{2}$, then *AB* = \_\_\_\_\_.
5. If $m∠OCB=30$ and *OB* = 4, then *OC* = \_\_\_\_\_.
6. If $m∠COB=60$ and *CB* = $6\sqrt{3}$, then *AB* = \_\_\_\_\_.
7. If $m∠BCD=70, then m∠CBD=m∠$\_\_\_\_\_ = \_\_\_\_\_.
8. If $m∠BCD=50, then m∠DBO= $ \_\_\_\_\_.

