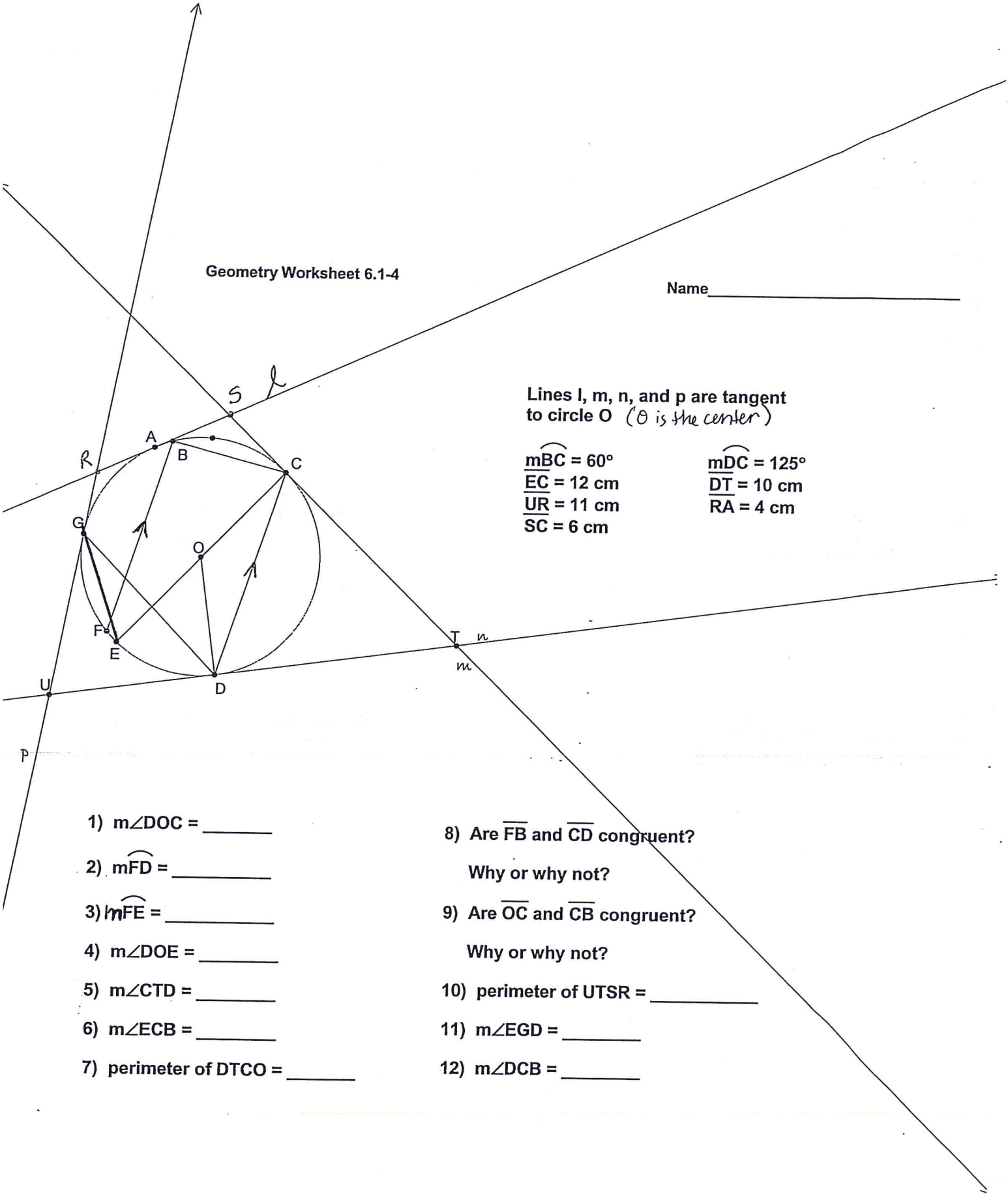
Geometry Worksheet 6.1-4

Name_____



Lines l, m, n, and p are tangent to circle O (O is the center)

$\overset{\frown}{mBC} = 60°$ $\overset{\frown}{mDC} = 125°$

$\overline{EC} = 12$ cm $\overline{DT} = 10$ cm

$\overline{UR} = 11$ cm $\overline{RA} = 4$ cm

$\overline{SC} = 6$ cm

1) $m\angle DOC =$ _____

2) $\overset{\frown}{mFD} =$ _____

3) $\overset{\frown}{mFE} =$ _____

4) $m\angle DOE =$ _____

5) $m\angle CTD =$ _____

6) $m\angle ECB =$ _____

7) perimeter of DTCO = _____

8) Are $\overline{FB}$ and $\overline{CD}$ congruent?

Why or why not?

9) Are $\overline{OC}$ and $\overline{CB}$ congruent?

Why or why not?

10) perimeter of UTSR = _____

11) $m\angle EGD =$ _____

12) $m\angle DCB =$ _____

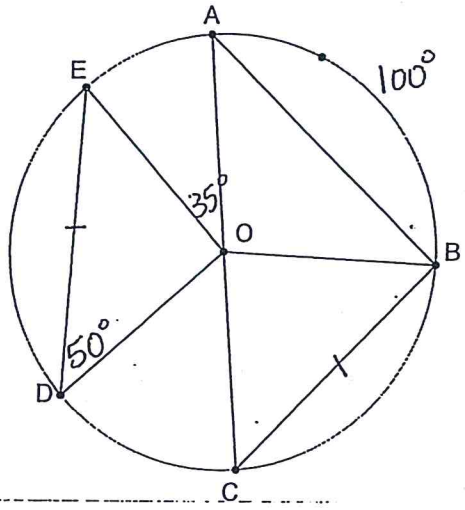
m∠EOD = _____

m∠OBC = _____

m∠ABC = _____

$m\overset{\frown}{DC}$ = _____

m∠ACB = _____



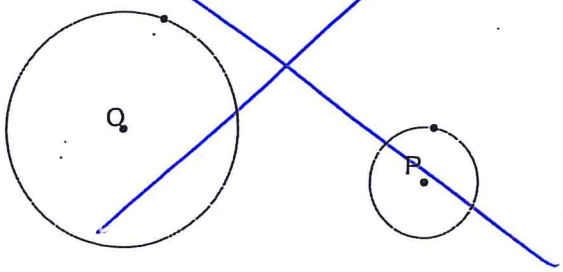
O is the center

Sketch the following:

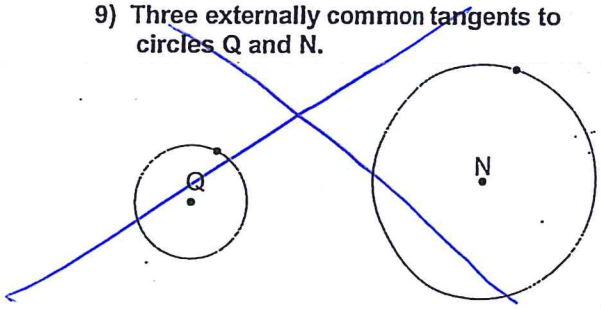
6) Externally tangent circles

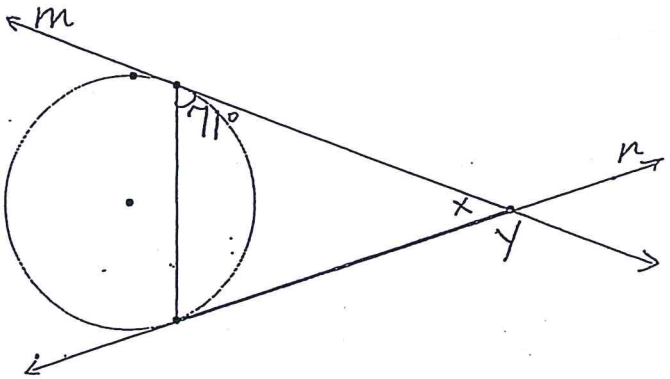
7) Internally tangent circles

8) Common internal tangent $\overleftrightarrow{AB}$ and common external tangent $\overleftrightarrow{CD}$.



9) Three externally common tangents to circles Q and N.





10) Lines m and n are tangent lines.

Find x and y.

x = y =