Name:_____

Period:_____

Supplementary and Complementary Angles Homework

Refer to figure 1.3 for exercises 7-9.

7) Find $m\angle 1$ if $m\angle 2 = 80$

8) Find $m\angle 1$ if $m\angle 2 = 82$

9) Find $m\angle 2$ if $m\angle 1 = 107$

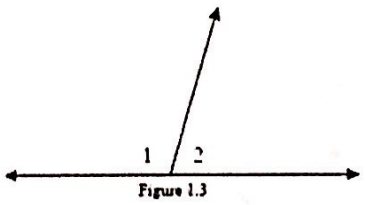


Figure 1.3

Refer to figure 1.4 for exercises 10-11.

Given: $m\angle AOD = 4x - 8$; $m\angle DOC = x - 11$

10) $m\angle COB = x + 13$

Find $m\angle AOD$

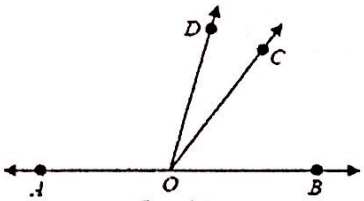


Figure 1.4

∠ 1 and ∠ 2 are *complementary* angles. Given the measure of ∠1, find $m\angle 2$.

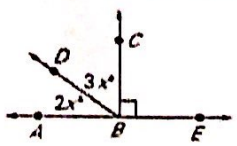
6. $m\angle 1 = 52°$, $m\angle 2 =$ _____ 7. $m\angle 1 = 76°$, $m\angle 2 =$ _____ 8. $m\angle 1 = 19°$, $m\angle 2 =$ _____

∠ 1 and ∠ 2 are *supplementary* angles. Given the measure of ∠1, find $m\angle 2$.

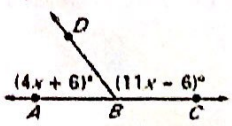
9. $m\angle 1 = 52°$, $m\angle 2 =$ _____ 10. $m\angle 1 = 76°$, $m\angle 2 =$ _____ 11. $m\angle 1 = 19°$, $m\angle 2 =$ _____

Use the diagrams to find the indicated measurements.

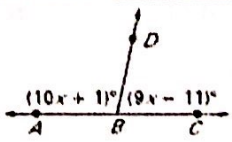
20. x = _____
$m\angle ABD =$ _____
$m\angle DBC =$ _____



21. x = _____
$m\angle ABD =$ _____
$m\angle DBC =$ _____



22. x = _____
$m\angle ABD =$ _____
$m\angle DBC =$ _____

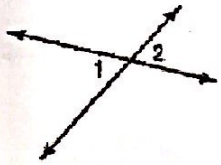


Given: $m\angle A = (4x - 2)°$ and $m\angle B = (11x + 17)°$

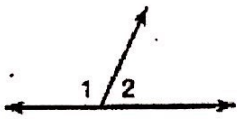
23. Find x if the angles are *complementary*.

24. Find x if the angles are *supplementary*.

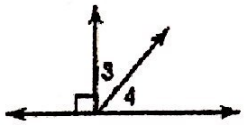
10. $m\angle 1 = 65$



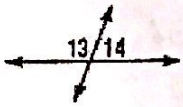
11. $m\angle 2 = 67$



12. $m\angle 3 = 38$

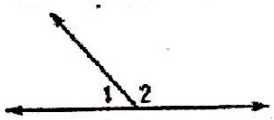


13. $m\angle 13 = 4x + 11$,
$m\angle 14 = 3x + 1$



14. $m\angle 2 = 4x - 26$,
$m\angle 3 = 3x + 4$

15. $m\angle 1 = x + 10$
$m\angle 2 = 3x + 18$



How did you feel while completing this homework?

1: I understood and could complete essentially no problems on this homework.	2: I could complete less than half of the problems on this homework.	3: I could complete most of the problems but got stuck on some of them as well.	4: I understood and could complete essentially all problems on this homework

If not at a four yet, what steps do you plan to take to further your understanding of this assignment? (See Mr. Scheuer before/after school, ask Mr. Scheuer for help during class, attend Intervention, get help from a tutor, get help from other resources, etc.)