Sec 8.6 Practice

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

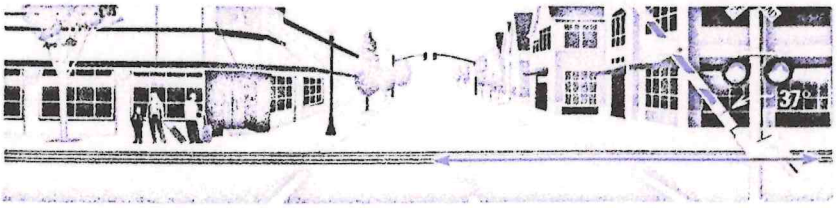
8. $m\angle 1 = 43°$ (9.) $m\angle 1 = 21°$ 10. $m\angle 1 = 89°$ 11. $m\angle 1 = 5°$

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

12. $m\angle 1 = 60°$ 13. $m\angle 1 = 155°$ 14. $m\angle 1 = 130°$ 15. $m\angle 1 = 27°$

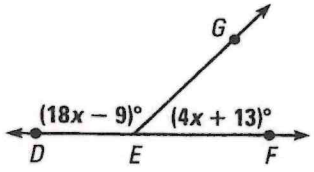
16. ★ **MULTIPLE CHOICE** The arm of a crossing gate moves 37° from vertical. How many more degrees does the arm have to move so that it is horizontal?

Ⓐ 37°
Ⓑ 53°
Ⓒ 90°
Ⓓ 143°

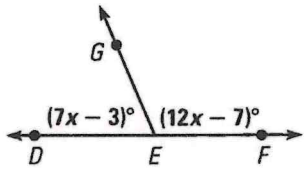


ALGEBRA Find $m\angle DEG$ and $m\angle GEF$.

17.



18.



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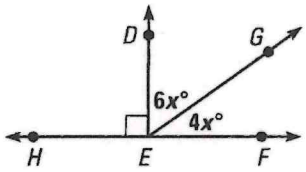
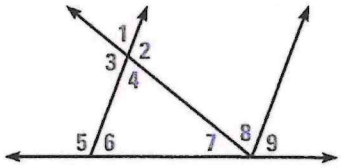


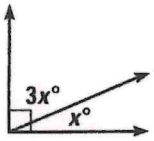
IDENTIFYING ANGLE PAIRS Use the diagram below. Tell whether the angles are *vertical angles*, a *linear pair*, or *neither*.

20. $\angle 1$ and $\angle 4$ (21.) $\angle 1$ and $\angle 2$
22. $\angle 3$ and $\angle 5$ 23. $\angle 2$ and $\angle 3$
24. $\angle 7$, $\angle 8$, and $\angle 9$ 25. $\angle 5$ and $\angle 6$
26. $\angle 6$ and $\angle 7$ 27. $\angle 5$ and $\angle 9$



28. **ALGEBRA** Two angles form a linear pair. The measure of one angle is 4 times the measure of the other angle. Find the measure of each angle.

29. **ERROR ANALYSIS** *Describe* and correct the error made in finding the value of x.



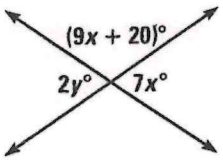
$x° + 3x° = 180°$
$4x = 180$
$x = 45$

30. ★ **MULTIPLE CHOICE** The measure of one angle is 24° greater than the measure of its complement. What are the measures of the angles?

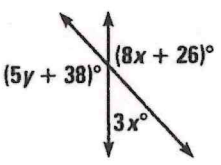
Ⓐ 24° and 66° Ⓑ 24° and 156° Ⓒ 33° and 57° Ⓓ 78° and 102°

ALGEBRA Find the values of x and y.

31.



32.



33.