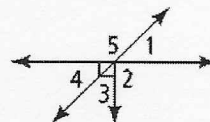


# 1-5 Practice

Form G

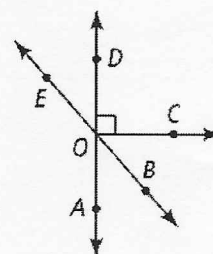
Use the diagram at the right. Is each statement true? Explain.

1.  $\angle 2$  and  $\angle 5$  are adjacent angles.
2.  $\angle 1$  and  $\angle 4$  are vertical angles.
3.  $\angle 4$  and  $\angle 5$  are complementary.

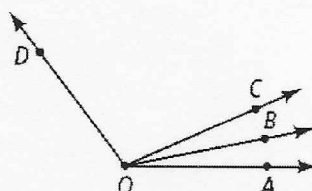


Name an angle or angles in the diagram described by each of the following.

4. complementary to  $\angle BOC$
5. supplementary to  $\angle DOB$
6. adjacent and supplementary to  $\angle AOC$



Use the diagram below for Exercises 7 and 8. Solve for  $x$ . Find the angle measures.



7.  $m\angle AOB = 4x - 1$ ;  $m\angle BOC = 2x + 15$ ;  $m\angle AOC = 8x + 8$
8.  $m\angle COD = 8x + 13$ ;  $m\angle BOC = 3x - 10$ ;  $m\angle BOD = 12x - 6$
9.  $\angle ABC$  and  $\angle EBF$  are a pair of vertical angles;  $m\angle ABC = 3x + 8$  and  $m\angle EBF = 2x + 48$ . What are  $m\angle ABC$  and  $m\angle EBF$ ?
10.  $\angle JKL$  and  $\angle MNP$  are complementary;  $m\angle JKL = 2x - 3$  and  $m\angle MNP = 5x + 2$ . What are  $m\angle JKL$  and  $m\angle MNP$ ?

For Exercises 11–14, can you make each conclusion from the information in the diagram? Explain.

11.  $\angle 3 \cong \angle 4$
12.  $\angle 2 \cong \angle 4$
13.  $m\angle 1 + m\angle 5 = m\angle 3$
14.  $m\angle 3 = 90$
15.  $\overline{KM}$  bisects  $\angle JKL$ . If  $m\angle JKM = 86$ , what is  $m\angle JKL$ ?
16.  $\overline{SV}$  bisects  $\angle RST$ . If  $m\angle RST = 62$ , what is  $m\angle RSV$ ?