

Angles with Algebra

Define complementary: \_\_\_\_\_

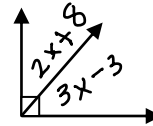
Define supplementary: \_\_\_\_\_

Find each angle if the two angles are complementary:

1)  $x$  and  $2x$

2)  $3x$  and  $x + 6$

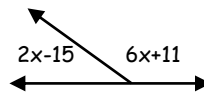
3)



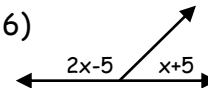
Find each angle if the two angles are supplementary:

4)  $3x$  and  $2x$

5)

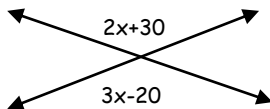


6)



The following angles are \_\_\_\_\_. Find the missing angles:

7)

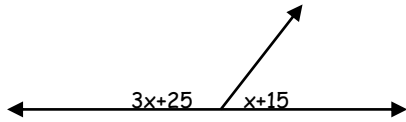


8)

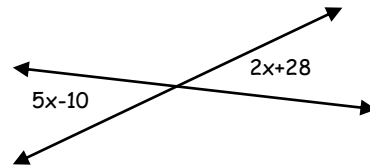


Try these. On the line write the relationship of the angles and then find the angle measures.

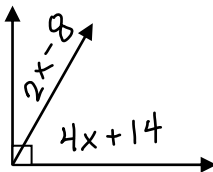
9) The angles are \_\_\_\_\_



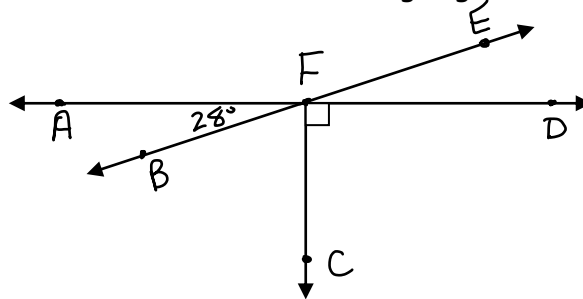
10) The angles are \_\_\_\_\_



11) The angles are \_\_\_\_\_



12) Use the diagram below to find all the missing angles and then answer the following questions.



a) What two angles are vertical angles? \_\_\_\_\_

b) Name two angles that are complementary. \_\_\_\_\_

c) Name two angles that are supplementary. \_\_\_\_\_

d) Name two angles that are adjacent. \_\_\_\_\_