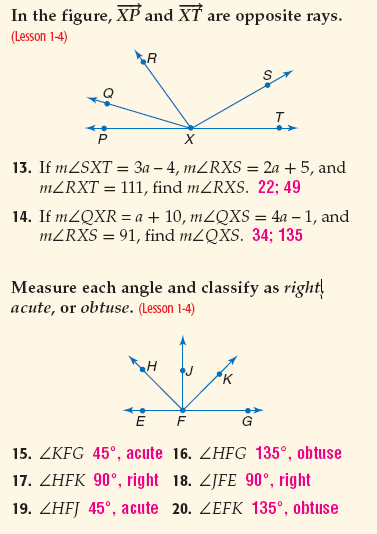
RTI Angle Relationships TEST REVIEW

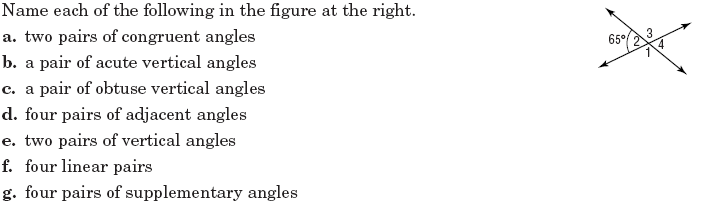
1. Find the measure of each angle if the m<HFK=90° and m<HFG=135°.

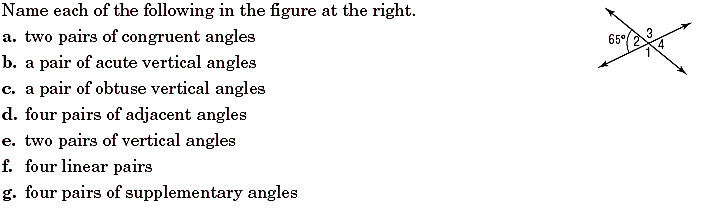
Ray FJ is an angle bisector of <HFK.

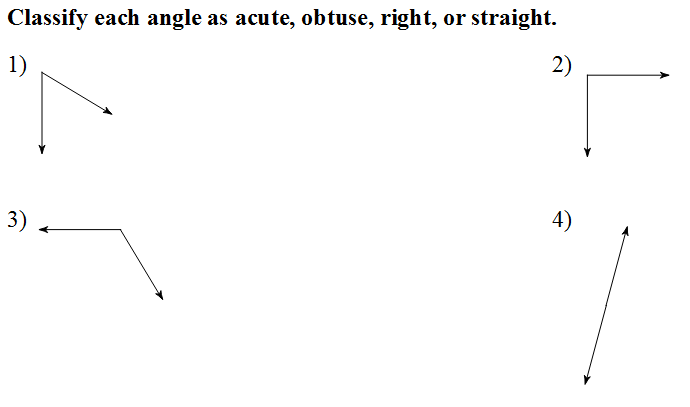


a. m<KFG= \_\_\_\_\_\_\_\_\_\_\_\_ b. m<JFK= \_\_\_\_\_\_\_\_\_\_\_

c. m<HFE= \_\_\_\_\_\_\_\_\_\_\_\_ d. m<EFK= \_\_\_\_\_\_\_\_\_\_\_

2.





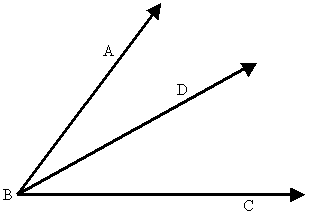
3.

**B**.

A.

D.

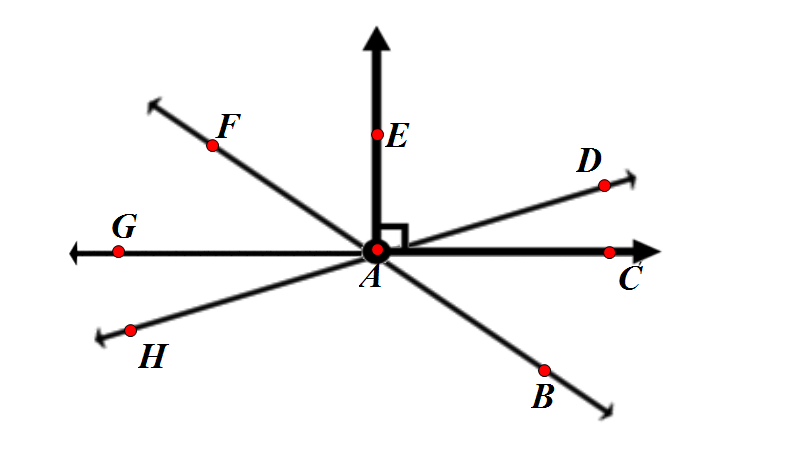
C.

4. Assume that Ray BD bisects <ABC. If <ABD = 34ᵒ, find:

m<DBC = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

m<ABC = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Use the diagram for the following questions.



True or false

A.) <CAD <EAD. B.) <CAD <GAH. C.) <FAE <EAD.

Find the measures of the following angles if < CAB = 30ᵒ and m<GAH = 15ᵒ

D.) m<DAC E.) m<EAD. F.) m<BAG

G.) m< GAE. H.) m<HAB I.) m<FAB

6. If <FTR = <ABC and <CBD = 27ᵒ, find m<FTR.

**F**

http://etc.usf.edu/clipart/32600/32692/c-angle34_32692.tifhttp://etc.usf.edu/clipart/32600/32692/c-angle34_32692.tif

**C**

**B**

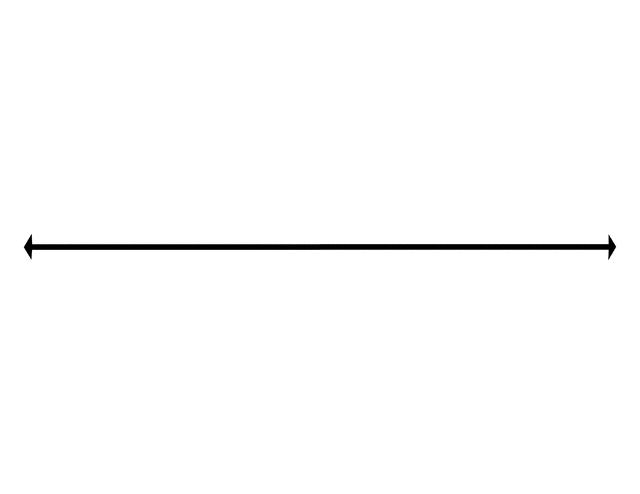
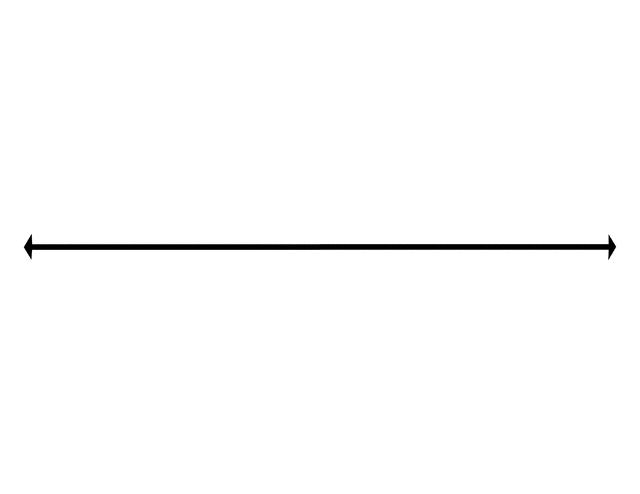
**A**

**T**

**W**

**R**

**D**

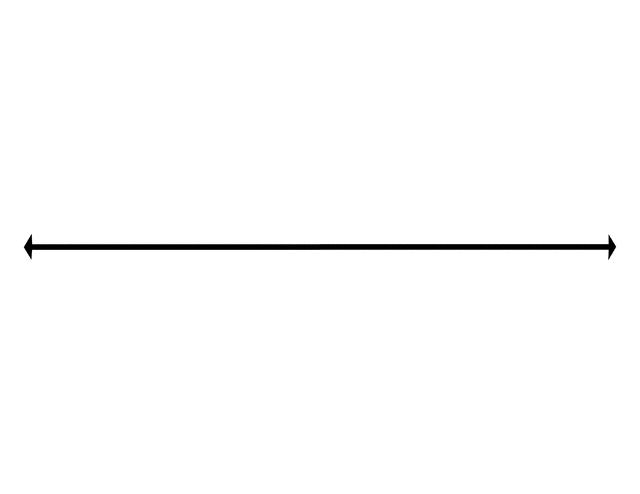
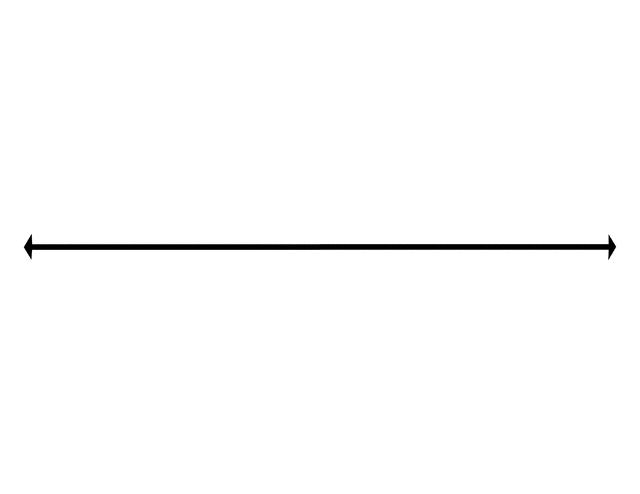


7. Find x.

**5x -20**

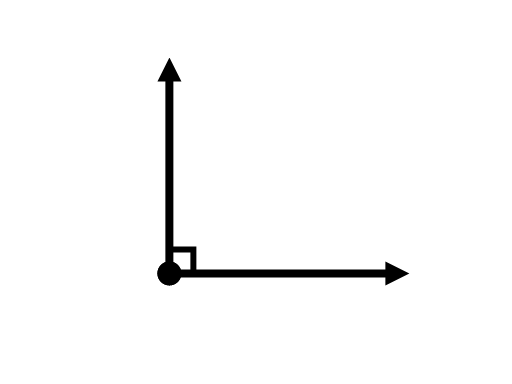
**2x + 10**

8. Find x.



**14x + 8**

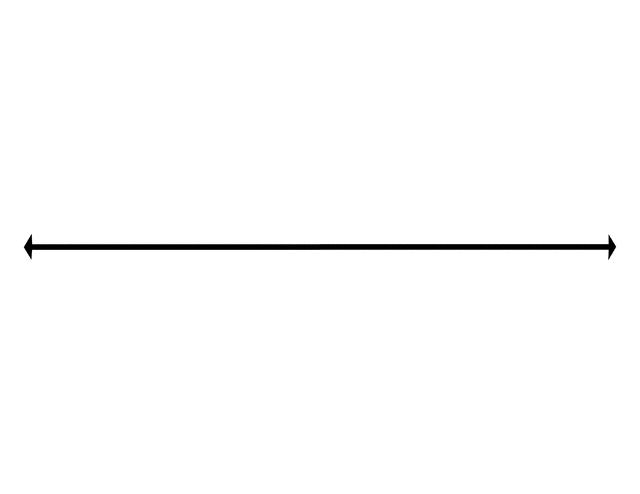
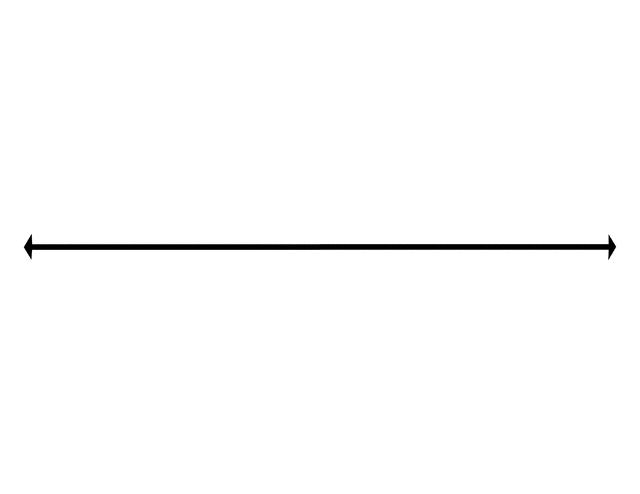
**7x + 4**

9. Find x.

**X + 15**

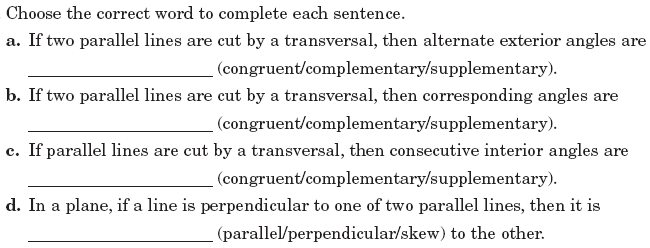
**2x**

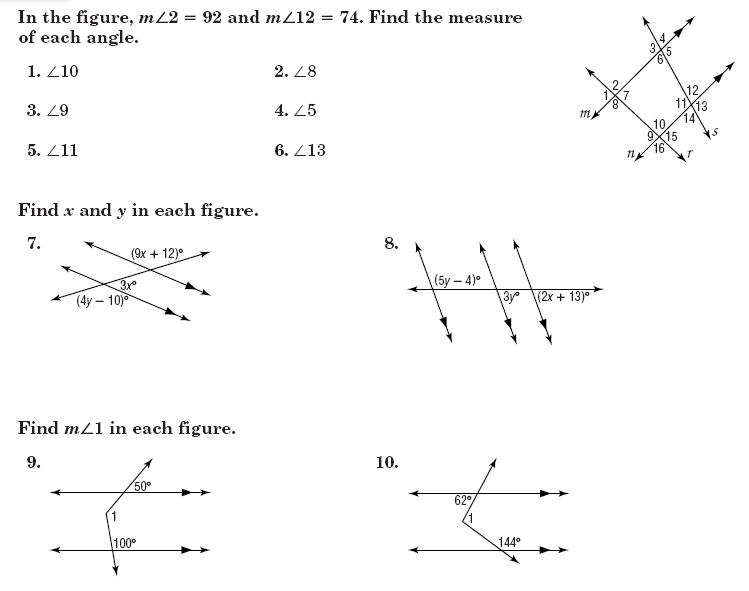
10. Find x.



**3x - 10**

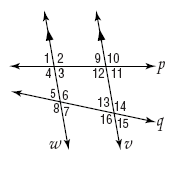
**12x + 25**

11.



12.

13. If *w //v*, give the justification for each statement.

You must use only the following relationships:

Corresponding angles are congruent

Alternate interior angles are congruent

Alternate exterior angles are congruent

Consecutive interior angles are supplementary

Linear pairs are supplementary

Vertical angles are congruent

a. <2<12 b. <8<14 c. <5<13

d. <10<2 e. <7 + <16 =180° f. <16<6

14. If m<3=43°, find the measures of each angle. Fill them in on the picture and list them out in order.



**Solve for x and justify your set up.**

You must use only the following relationships:

Corresponding angles are congruent

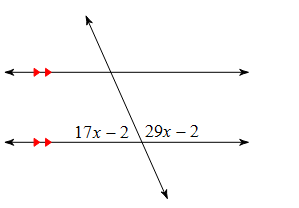
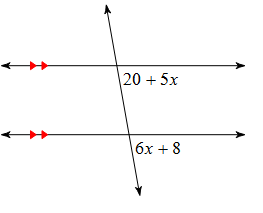
Alternate interior angles are congruent

Alternate exterior angles are congruent

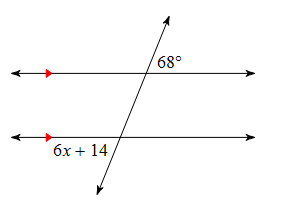
Consecutive interior angles are supplementary

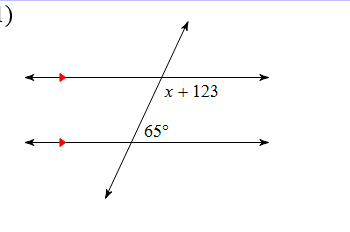
Linear pairs are supplementary

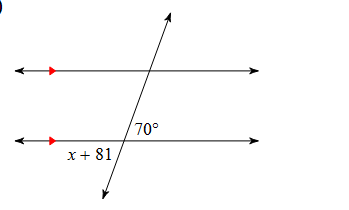
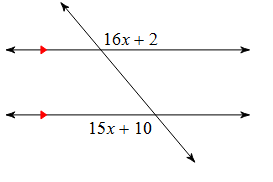
Vertical angles are congruent

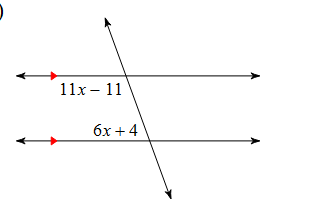


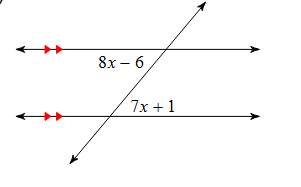
15. 16.



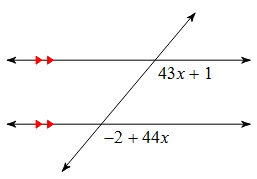
17. 18.

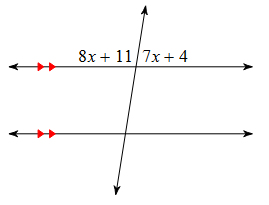
19. 20.





21. 22.



23. 24.