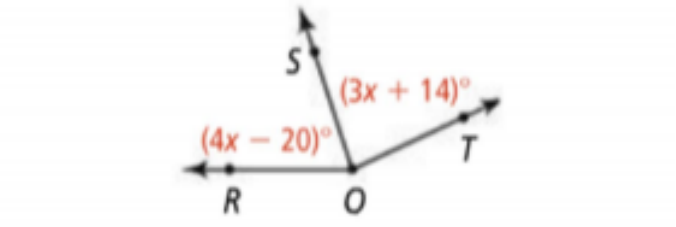
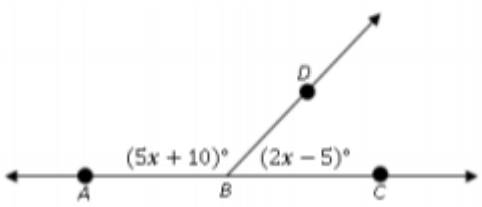
Angle Addition

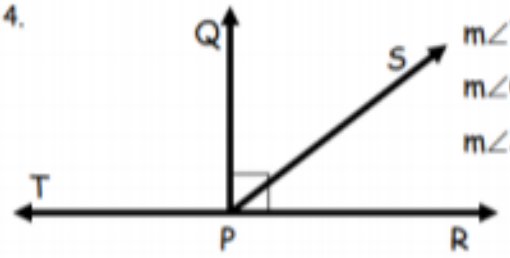
If $m\angle RQT = 155$, what are $m\angle RQS$ and $m\angle TQS$?



Find the measure of angle ABD.



4.



m∠TPQ = 90°
m∠QPS = 7x - 12
m∠SPR = 5x + 6

Find the following:

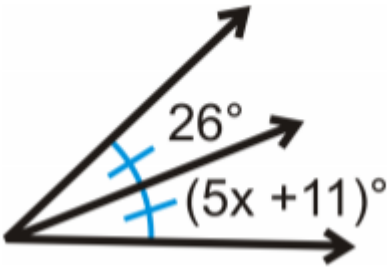
x = _____ m∠TPR = _____

m∠QPS = _____ m∠SPR = _____

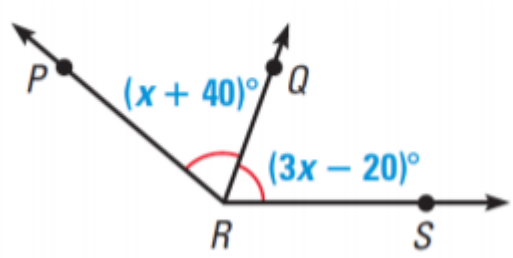
m∠QPR = _____ m∠SPT = _____

Angle Bisector

Find x



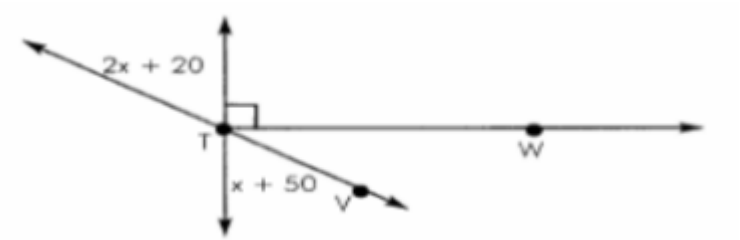
Find measure of angle PRS



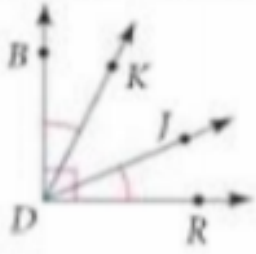
Ray BX bisects angle ABC

If $m\angle ABC = 4x+16$ and $m\angle CBX = 3x+6$, find the value of x.

Combination Problems



Solve for x and m $\angle VTW$



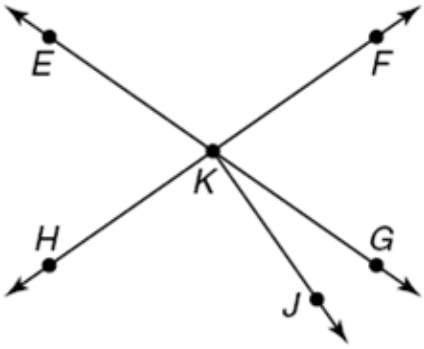
4. $m\angle BDK = 3x + 4, m\angle JDR = 5x - 10$

5. $m\angle BDJ = 7y + 2, m\angle JDR = 2y + 7$

6. m $\angle JDR$= 3x+2
   m $\angle KDJ$= 4x-8

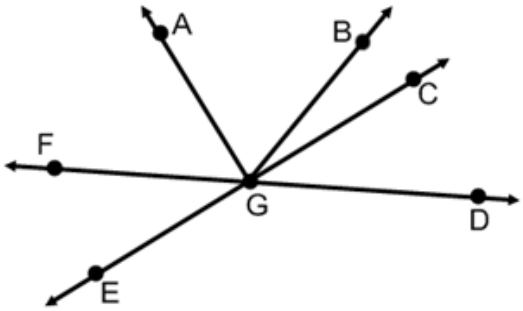
Angle Pairs

For #1-6, use the figure at the right.



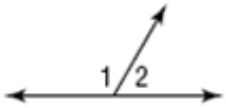
1. Name two acute vertical angles.
2. Name two obtuse vertical angles.
3. Name a linear pair.
4. Name two acute adjacent angles.
5. Name an angle complementary to $\angle FKG$.
6. Name an angle supplementary to $\angle FKG$.

Use the figure at the right to answer each question.

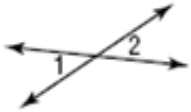


10. Name two acute vertical angles.
11. Name two obtuse vertical angles.
12. Name a pair of adjacent angles
13. Name a linear pair.
14. Name a pair of complementary angles.
15. Name an angle supplementary to $\angle FGE$

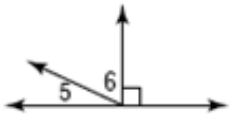
7. $m\angle 2 = 57$



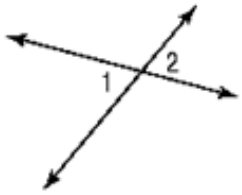
8. $m\angle 1 = 38$



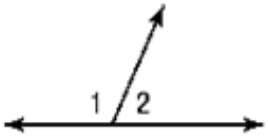
9. $m\angle 5 = 22$



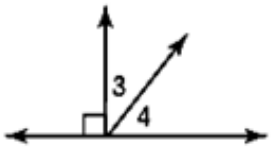
10. $m\angle 1 = 65$



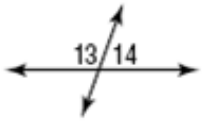
11. $m\angle 2 = 67$



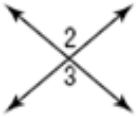
12. $m\angle 3 = 38$



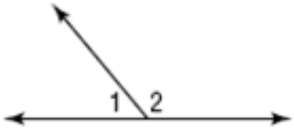
13. $m\angle 13 = 4x + 11$,
$m\angle 14 = 3x + 1$



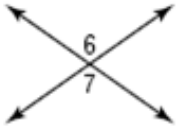
14. $m\angle 2 = 4x - 26$,
$m\angle 3 = 3x + 4$



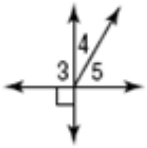
15. $m\angle 1 = x + 10$
$m\angle 2 = 3x + 18$



16. $m\angle 6 = 7x - 24$
$m\angle 7 = 5x + 14$



17. $m\angle 4 = 2x - 5$
$m\angle 5 = 4x - 13$



18. $\angle 7$ and $\angle 8$ are complementary. $\angle 5 \cong \angle 8$ and $m\angle 6 = 29$.