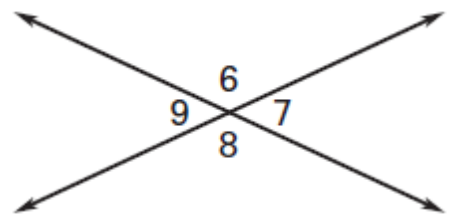
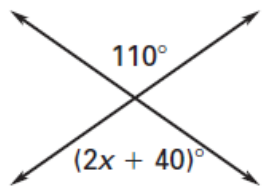

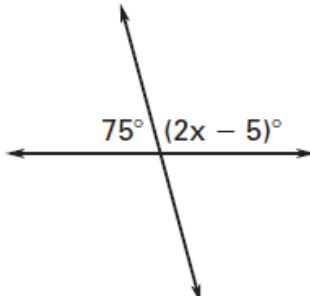
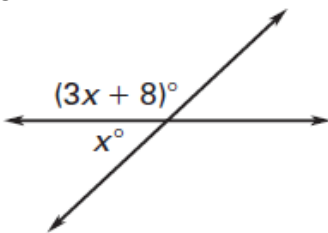
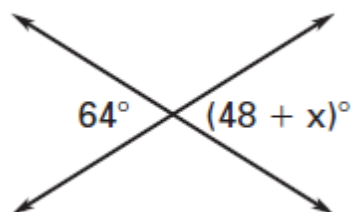
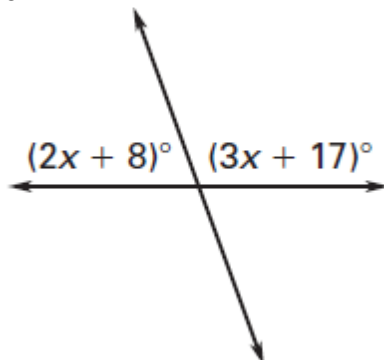


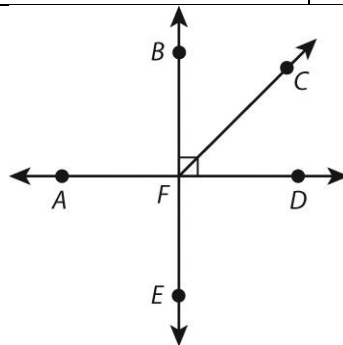
1. Which pairs of angles form vertical angles? $\angle 7$ and _____, $\angle 8$ and _____	
2. Which pairs of angles form a linear pair? $\angle 7$ and _____, $\angle 8$ and _____	
3. Complete the equation: $m\angle 8 + \underline{\hspace{2cm}} = 180^\circ$	
4. Complete the equation: $m\angle 9 = \underline{\hspace{2cm}}$	

For each diagram, a) write an equation that uses the information about the labeled angles, b) solve for the variable.

5. 	6. 	7. 
8. 	9. 	10. 

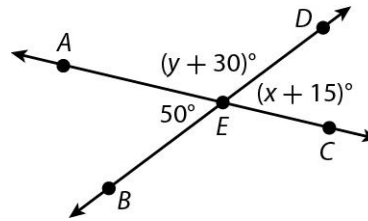
Use the figure to answer the following 11-13.

11. Name two complementary angles.
12. Name two supplementary angles.
13. If $m\angle AFC = 150^\circ$, what is $m\angle CFD$?



14. $\angle PQR$ and $\angle SQR$ form a linear pair. What is the sum of their measures? _____
15. Name the ray that $\angle PQR$ and $\angle SQR$ share. _____

Use the figure for Problems 16–21.



16. Give the supplement of $\angle AEB$. _____

17. Give the complement of $\angle AEB$. _____

18. $x =$ _____

19. $y =$ _____

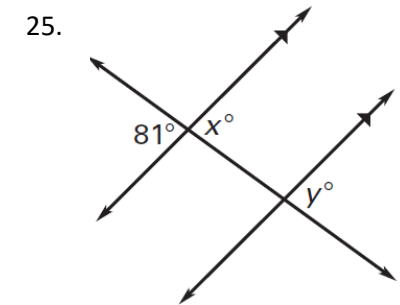
20. $m\angle DEC =$ _____

21. $m\angle AED =$ _____

Find $m\angle 1$ and $m\angle 2$. Explain your reasoning.

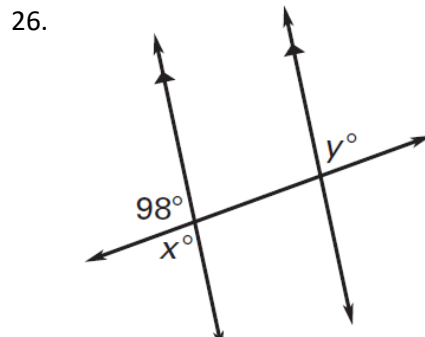
<p>22.</p> <p>$m\angle 1 =$ _____ because</p> <p>$m\angle 2 =$ _____ because</p>	<p>23.</p> <p>$m\angle 1 =$ _____ because</p> <p>$m\angle 2 =$ _____ because</p>	<p>24.</p> <p>$m\angle 1 =$ _____ because</p> <p>$m\angle 2 =$ _____ because</p>
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Find the measures of x and y . Explain your reasoning.



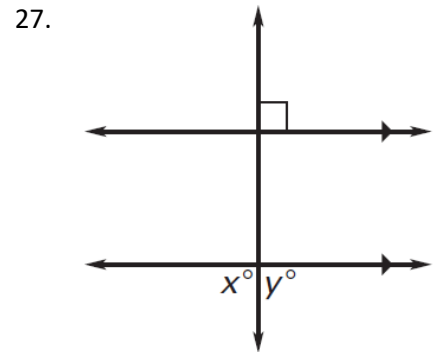
$x =$ _____ because

$y =$ _____ because



$x =$ _____ because

$y =$ _____ because



$x =$ _____ because

$y =$ _____ because

Which postulate or theorem relates the labeled angles? Find the measure of x . Show your work clearly.

<p>28.</p> <p>$x =$ _____</p> <p>Postulate or Theorem: _____</p>	<p>29.</p> <p>$x =$ _____</p> <p>Postulate or Theorem: _____</p>	<p>30.</p> <p>$x =$ _____</p> <p>Postulate or Theorem: _____</p>
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