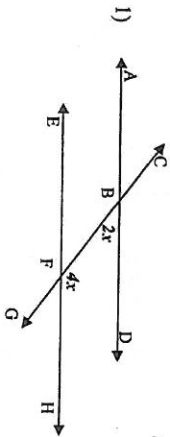


Name _____

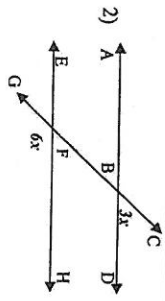
FINDING UNKNOWN ANGLE MEASURES—SUPPLEMENTARY ANGLES—#5

Directions: Find the measure of each missing angle in the parallel lines and transversals below.]



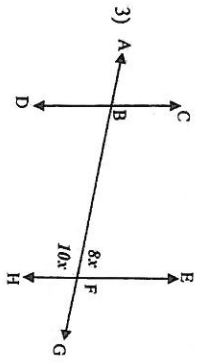
Equation: _____

$x =$ _____ $\angle HFC =$ _____ $\angle DBG =$ _____



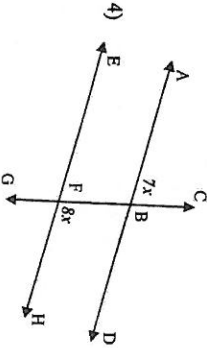
Equation: _____

$x =$ _____ $\angle CBD =$ _____ $\angle GFH =$ _____



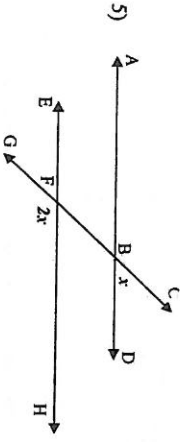
Equation: _____

$x =$ _____ $\angle AFH =$ _____ $\angle AFE =$ _____



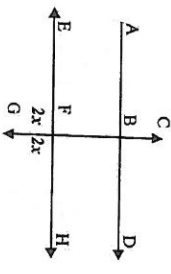
Equation: _____

$x =$ _____ $\angle CBA =$ _____ $\angle CFH =$ _____



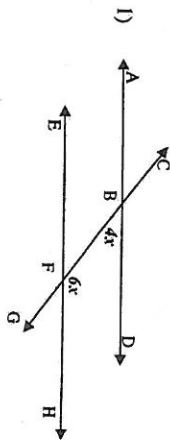
Equation: _____

$x =$ _____ $\angle GFH =$ _____ $\angle CBD =$ _____



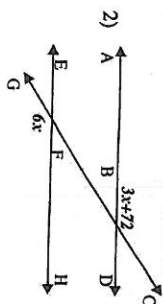
Equation: _____

$x =$ _____ $\angle EFG =$ _____ $\angle GFH =$ _____



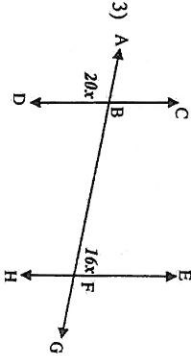
Equation: _____

$x =$ _____ $\angle HFC =$ _____ $\angle DBG =$ _____



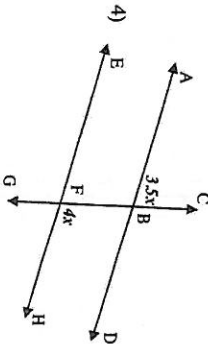
Equation: _____

$x =$ _____ $\angle ABC =$ _____ $\angle GFH =$ _____



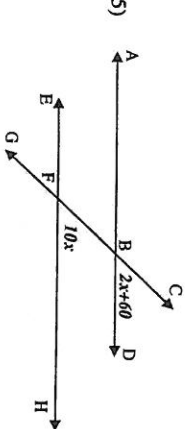
Equation: _____

$x =$ _____ $\angle ABD =$ _____ $\angle APE =$ _____



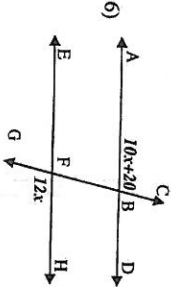
Equation: _____

$x =$ _____ $\angle CBA =$ _____ $\angle CFH =$ _____



Equation: _____

$x =$ _____ $\angle CFH =$ _____ $\angle CBD =$ _____



Equation: _____

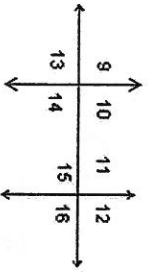
$x =$ _____ $\angle ABC =$ _____ $\angle GFH =$ _____

Name: _____ Date: _____ Period: _____

Use the figures at the right to answer problems 1-8.

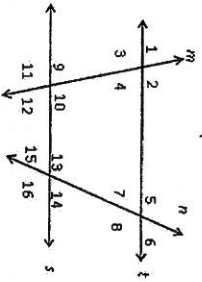
Classify each pair of angles as one of the following:

- (a) alternate interior angles
- (b) corresponding angles
- (c) alternate exterior angles
- (d) vertical angles
- (e) supplementary angles
- (f) none



1. _____ $\angle 9$ & $\angle 16$
2. _____ $\angle 15$ & $\angle 11$
3. _____ $\angle 10$ & $\angle 15$
4. _____ $\angle 12$ & $\angle 15$

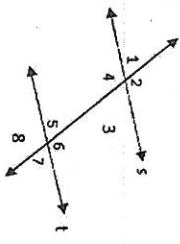
Lines s and t are parallel.



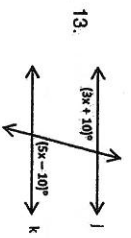
9. $m\angle 3 =$ _____ $m\angle 5 =$ _____
 $m\angle 10 =$ _____ $m\angle 7 =$ _____
 $m\angle 9 =$ _____ $m\angle 16 =$ _____

Find the value of x given that $s \parallel t$

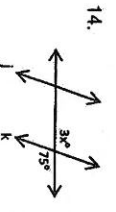
10. $m\angle 4 = 77^\circ$, $m\angle 8 = 4x + 57$
11. $m\angle 3 = 5x + 19$, $m\angle 5 = 53^\circ$
12. $m\angle 1 = 6x - 5$, $m\angle 7 = 115^\circ$



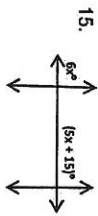
Find the value of x that makes $l \parallel k$.



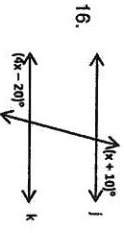
13.



14.

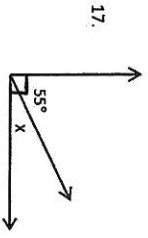


15.

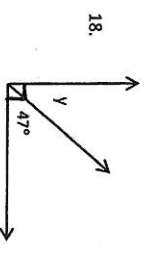


16.

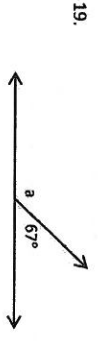
Determine the missing angles.



17.



18.



19.



20.