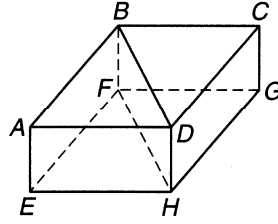


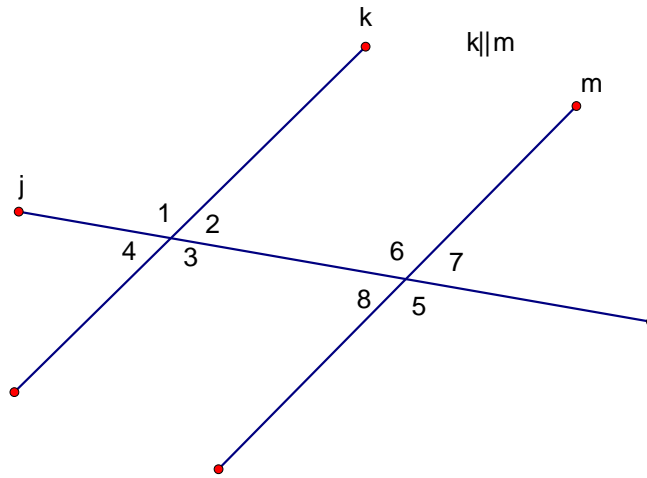
Geometry - Chapter 3 Practice Written Test

True or False

1. $\overline{DH} \parallel \overline{BF}$
2. \overline{AB} is skew to \overline{CD}
3. \overline{EH} is skew \overline{BD}
4. Plane ABC is parallel to plane EHG
5. \overline{CG} appears to be \perp to \overline{HG}



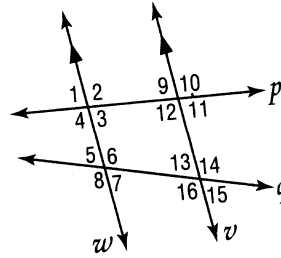
Use the figure below to classify each pair of angles. Determine if they are congruent, supplementary or neither.



#	Angles	Name	\cong , supp., neither
6.	$\angle 3$ & $\angle 6$		
7.	$\angle 7$ & $\angle 4$		
8.	$\angle 2$ & $\angle 6$		
9.	$\angle 7$ & $\angle 6$		
10.	$\angle 2$ & $\angle 4$		

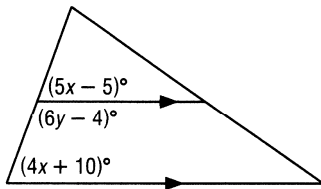
In the figure $m\angle 9 = 80$ and $m\angle 5 = 68$. Find the measure of each angle.

11. $\angle 12 =$ 12. $\angle 1 =$
 13. $\angle 4 =$ 14. $\angle 3 =$
 15. $\angle 7 =$ 16. $\angle 16 =$

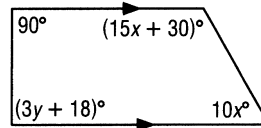


Find x and y in each figure

17.

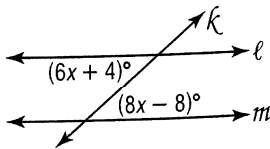


18.

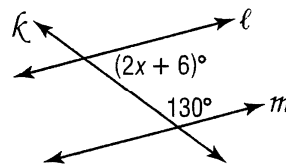


Solve for x if $l \parallel m$

19.

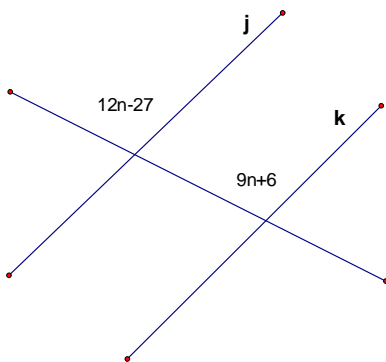


20.

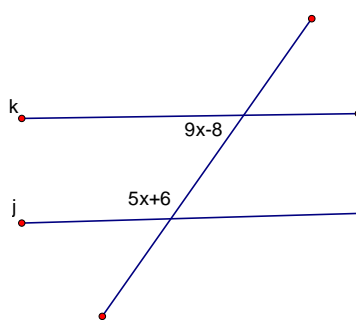


Determine what the value of each variable has to be to make sure lines are parallel.

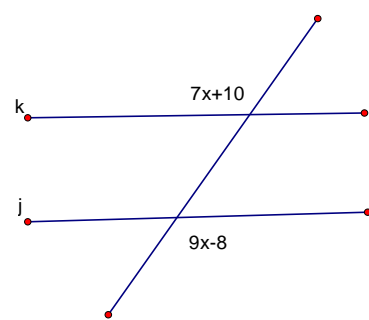
21.



22.



23.



Determine whether the lines given are *parallel*, *perpendicular* or *neither*.

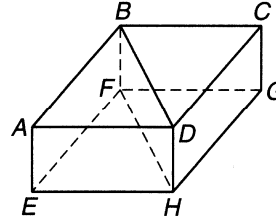
24. Line 1: thru points $(-2, 2)$ and $(5, 8)$
 Line 2: thru points $(-8, 7)$ and $(-2, 0)$

25. Line 3: thru points $(5, 4)$ and $(-4, -4)$
 Line 4: thru points $(-6, -1)$ and $(3, 7)$

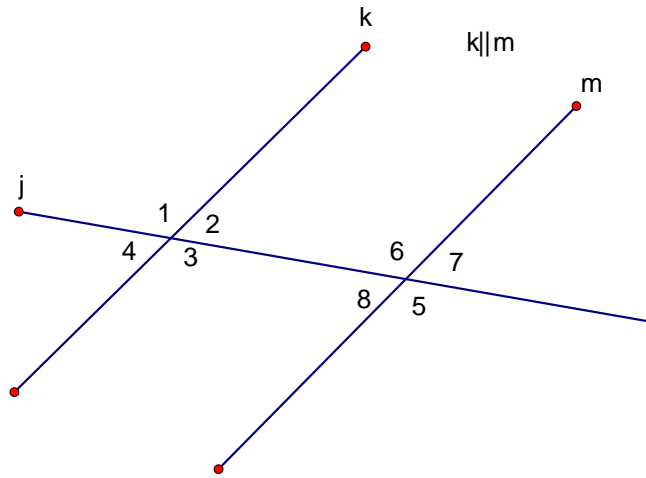
Geometry - Chapter 3 Practice Written Test **ANSWERS in BLUE**

True or False

1. $\overline{DH} \parallel \overline{BF}$ **true**
2. \overline{AB} is skew to \overline{CD} **false (they are parallel)**
3. \overline{EH} is skew \overline{BD} **true**
4. Plane ABC is parallel to plane EHG **true**
5. \overline{CG} appears to be \perp to \overline{HG} **true**



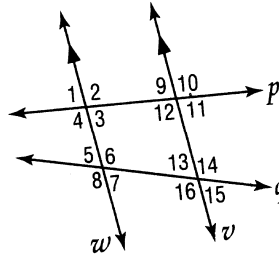
Use the figure below to classify each pair of angles. Determine if they are congruent, supplementary or neither.



#	Angles	Name	\cong , supp., neither
6.	$\angle 3$ & $\angle 6$	Alternate Interior	Congruent
7.	$\angle 7$ & $\angle 4$	Alternate Exterior	Congruent
8.	$\angle 2$ & $\angle 6$	Consecutive Interior	Supplementary
9.	$\angle 7$ & $\angle 6$	Linear Pair	Supplementary
10.	$\angle 2$ & $\angle 4$	Vertical	Congruent

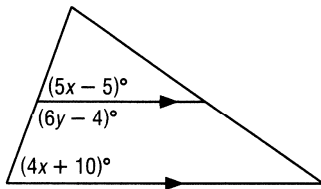
In the figure $m\angle 9 = 80$ and $m\angle 5 = 68$. Find the measure of each angle.

11. $\angle 12 = 100$ 12. $\angle 1 = 80$
 13. $\angle 4 = 100$ 14. $\angle 3 = 80$
 15. $\angle 7 = 68$ 16. $\angle 16 = 112$



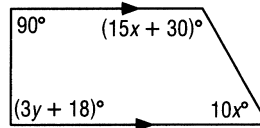
Find x and y in each figure

17.



$x = 15, y = 19$

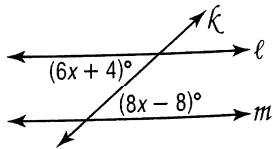
18.



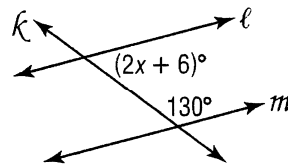
$x = 6, y = 24$

Solve for x if $l \parallel m$

19. $x = 6$

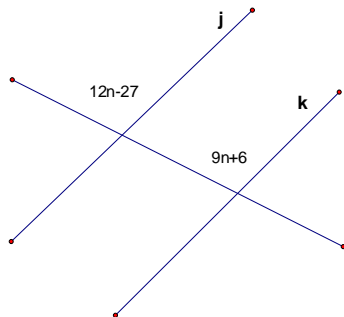


20. $x = 22$



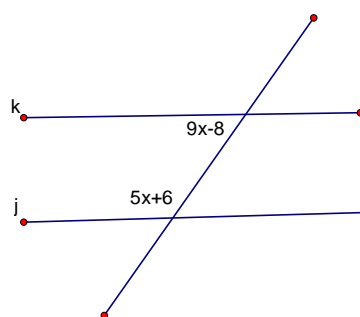
Determine what the value of each variable has to be to make sure lines are parallel.

21.



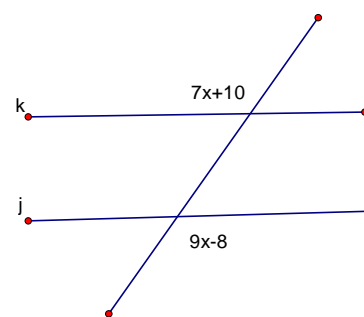
$x = 11$

22.



$x = 13$

23.



$x = 9$

Determine whether the lines given are *parallel*, *perpendicular* or *neither*.

24. Line 1: thru points $(-2, 2)$ and $(5, 8)$
 Line 2: thru points $(-8, 7)$ and $(-2, 0)$

Perpendicular – opposite reciprocal slopes

25. Line 3: thru points $(5, 4)$ and $(-4, -4)$
 Line 4: thru points $(-6, -1)$ and $(3, 7)$

Parallel – equal slopes