

Name: _____

Review – Unit 4

1. Name the relationship between the indicated pairs of angles. Use the following key to answer each of the questions:

A – alternate interior

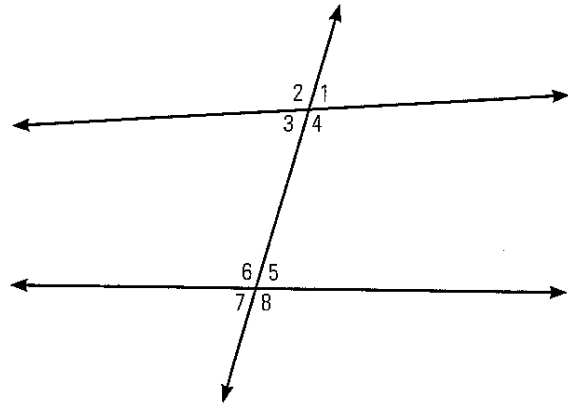
B – corresponding

C – interior on the same side of the transversal

D – alternate exterior

E – exterior on the same side of the transversal

F – vertically opposite



a) $\angle 4$ and $\angle 6$

e) $\angle 1$ and $\angle 8$

i) $\angle 4$ and $\angle 8$

b) $\angle 2$ and $\angle 8$

f) $\angle 4$ and $\angle 5$

j) $\angle 2$ and $\angle 7$

c) $\angle 3$ and $\angle 6$

g) $\angle 2$ and $\angle 6$

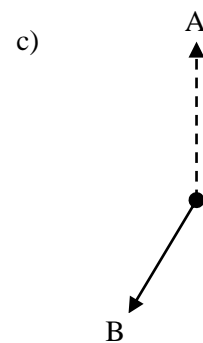
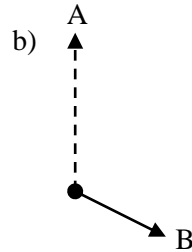
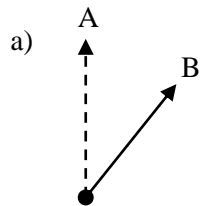
k) $\angle 3$ and $\angle 5$

d) $\angle 1$ and $\angle 5$

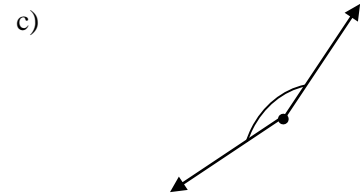
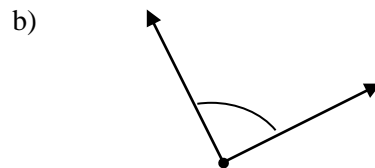
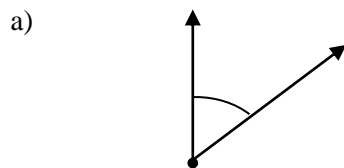
h) $\angle 6$ and $\angle 8$

l) $\angle 3$ and $\angle 7$

2. Use a protractor to find the true bearing from A to B?



3. Bisect the following angles using a *compass*.

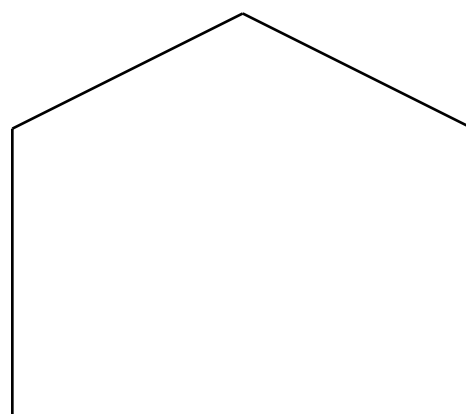


4. Fill in the missing parts in the table.

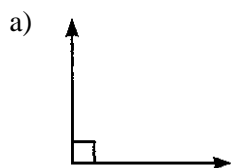
Angle	Complement	Supplement	Resulting angle after original angle bisected
18°			
		152°	
	44°		
			31°

5. Reduce the following shape by a scale factor of $\frac{1}{2}$ using the *ratio method*.

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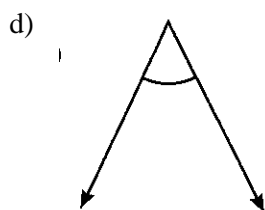


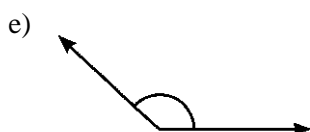
6. Name each of the following as **acute**, **right**, **obtuse**, **straight** or **reflex** angles.

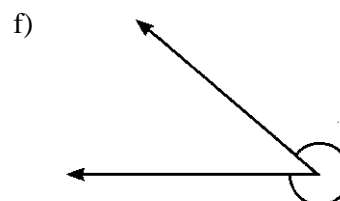






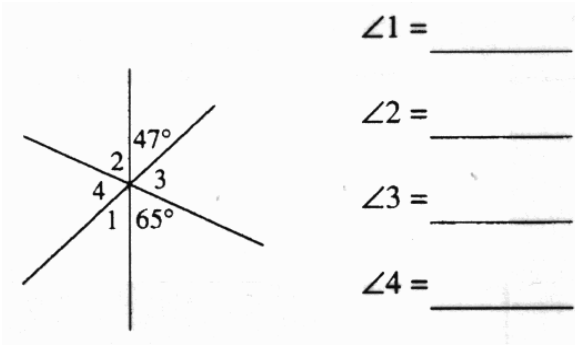




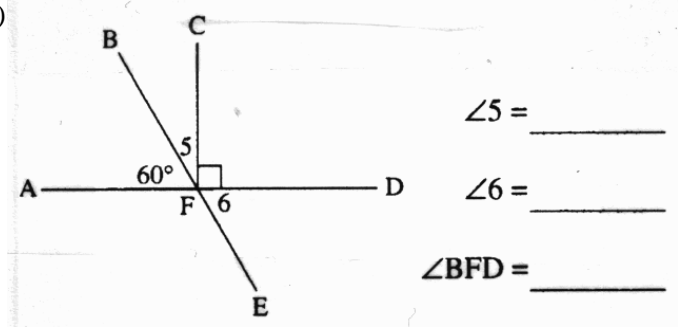


7. Determine the measures of the indicated angles.

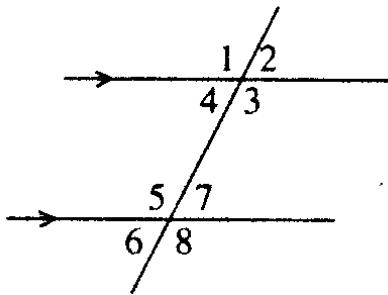
a)



b)



8. Indicate which of the following pairs of angles are either *equal* (E) or *supplementary* (S).



a) $\angle 1$ and $\angle 3$

b) $\angle 2$ and $\angle 7$

c) $\angle 3$ and $\angle 7$

d) $\angle 4$ and $\angle 6$

e) $\angle 1$ and $\angle 6$

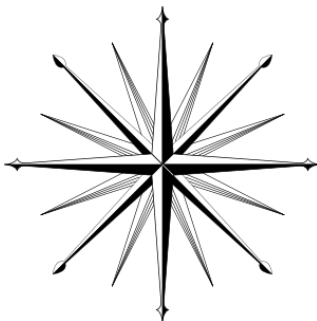
f) $\angle 2$ and $\angle 8$

g) $\angle 1$ and $\angle 5$

h) $\angle 5$ and $\angle 7$

i) $\angle 3$ and $\angle 6$

9. a) Label the *Compass Bearings Rose* below:



b) What is the **true bearing** of the following directions?

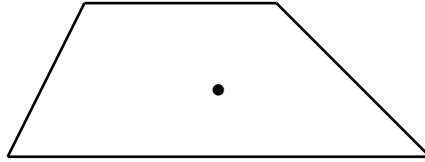
i) W

ii) SE

iii) SSW

10. The lengths of the sides of a quadrilateral are 3", 7", 11" and 15". Calculate the lengths of the sides of a similar quadrilateral that has a longest side of 30".

11. Enlarge the following shape by a scale factor of 2 using the *parallel method*.



12. If $\triangle FLD \sim \triangle MXQ$, determine which sides and angles correspond to the given information.

a) $\angle F =$

d) $MX =$

b) $FD =$

e) $\angle D =$

c) $\angle X =$

f) $DL =$

13. Given that the two figures shown are **similar**, determine the values of a and y .

