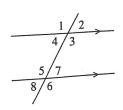
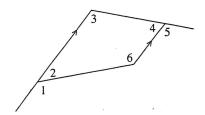
1.



Name an angle that is:

- a) vertically opposite to $\angle 3$
- 1
- b) corresponding to $\angle 5$
- 1
- c) alternate interior to ∠4
- 7
- d) interior on the same side of the transversal to ∠7
- 3
- e) corresponding to ∠6
- 3
- f) alternate interior to ∠5
- 3
- g) interior on the same side of the transversal to ∠4
- 5

2.

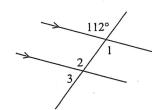


Name an angle that is:

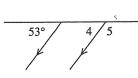
- a) alternate interior to $\angle 1$
- 6
- b) corresponding to $\angle 3$
- 5
- c) supplementary to $\angle 1$
- 2
- d) supplementary to ∠6
- 2
- e) interior on the same side of the transversal to ∠3
- 4

3. Find the measure of each required angle.

a)



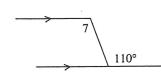
b)



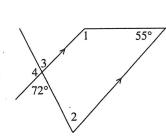
c)



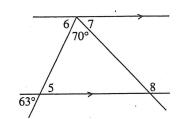
d)



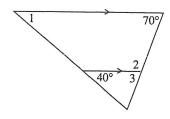
e)



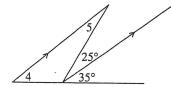
f)



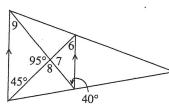
g)



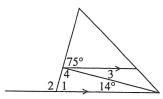
h)



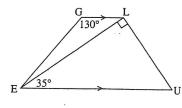
i)



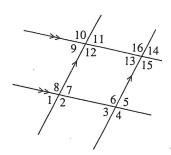
j)



k)



4.



Name:

a) an \angle vertically opposite to $\angle 10$

b) 2 ∠s alternate interior to ∠13

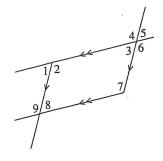
c) $2 \angle s$ corresponding to $\angle 1$

d) 2 interior \angle s on the same side of the transversal to \angle 6

e) 3 ∠s supplementary to ∠8

f) 3 \angle s congruent to \angle 7

5.



Classify each pair of angles below by the most appropriate letter.

 $S = supplementary \angle s$

 $V = vertically opposite \angle s$

 $C = corresponding \angle s$

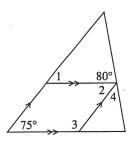
A = alternate interior \angle s

 $I = interior \angle s$ on the same side of the transversal

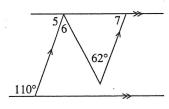
N = none of these

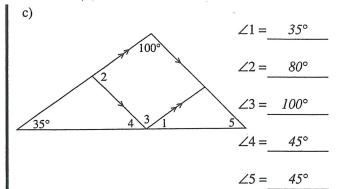
- a) $\angle 1$ and $\angle 3$ C f) $\angle 1$ and $\angle 6$ N
- b) $\angle 9$ and $\angle 8$ g) $\angle 2$ and $\angle 8$ I
- c) $\angle 4$ and $\angle 6$ V h) $\angle 2$ and $\angle 4$ A
- d) $\angle 7$ and $\angle 6$ A i) $\angle 7$ and $\angle 8$ I
- e) $\angle 4$ and $\angle 7$ C j) $\angle 8$ and $\angle 3$ N
- 6. Find the measure of each numbered angle.

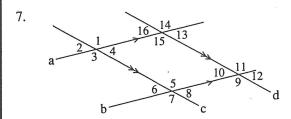
a)



b)







Name the two parallel segments and the transversal that form:

	Segments		Transversal
a) alternate interior			
\angle s 3 and 5	_a_	<u>b</u>	<u> </u>

b) corresponding
$$\angle$$
s 5 and 11 $\underline{c} \underline{d} \underline{b}$

- c) interior ∠s 13 and 11 on the same side of the transversal
- d) alternate interior \angle s 15 and 1

8. If two parallel lines are intersected by a transversal
a) can two corresponding angles be
complementary? Explain your answer.

Yes. Both = 45° .

b) can two alternate interior angles be supplementary? Explain your answer.

Yes. Both = 90° .

c) can two interior angles on the same side of the transversal be obtuse? Explain your answer.

No, because 2 obtuse angles cannot add to 180°.