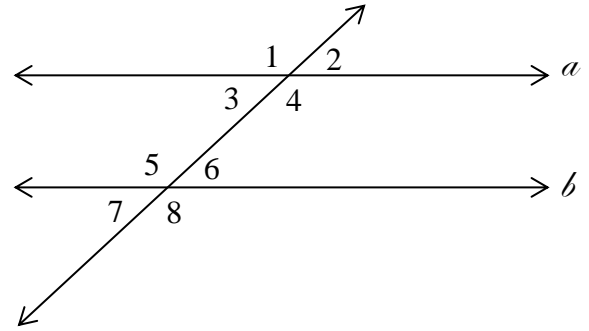


**Geometry**

**3.2 Angles and Parallel Lines**

Name \_\_\_\_\_ Hour \_\_\_\_\_



1) Given:  $a \parallel b$  and  $m\angle 1 = 145$ . Find  $m\angle 8$

Statements	Reasons

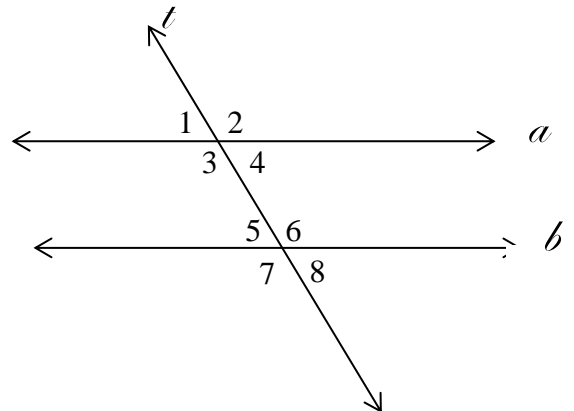
In this figure, lines  $a$  and  $b$  are parallel and are cut by transversal  $t$ .

2) List all pairs of Alternate Interior Angles.

3) List all pairs of Alternate Exterior Angles.

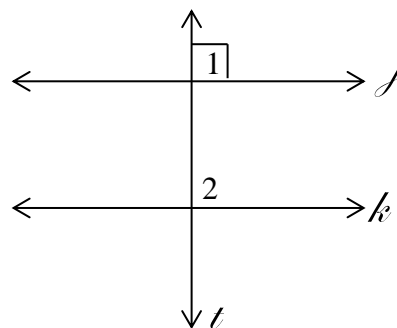
4) List all angle pairs that are Corresponding Angles.

5) List all pairs of Consecutive Interior Angles.



6) Given:  $j \parallel k, t \perp j$

Prove:  $t \perp k$



Statements	Reasons

7) If  $p \parallel q$  and  $m\angle 1 = 4x - 35$  and  $m\angle 5 = 2x + 15$  then find  $x$ .

