Chapter 7 Review Guide

1. Theorems & Postulates Covered
    a. Same-Side Interior Angles Postulate
    b. Same-Side Exterior Angles Theorem
    c. Alternate Interior Angles Theorem
    d. Alternate Exterior Angles Theorem
    e. Corresponding Angles Theorem
    f. Converse of Corresponding Angles Theorem
    g. Converse of Alternate Interior Angles Theorem
    h. Converse of Same-Side Interior Angles Theorem
    i. Converse of the Alternate Exterior Angles Theorem
    j. two lines perpendicular to the same line
    k. Triangle Sum Theorem
    l. Triangle Exterior Angle Theorem

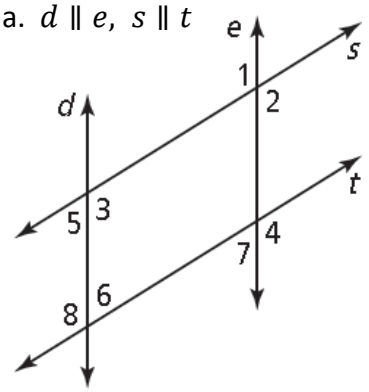
2. Angle Relationships
    a. Linear Pair
    b. Vertical Angles
    c. Adjacent Angles
    d. Supplementary Angles

<u>Skills to Practice in Preparation for Test</u>

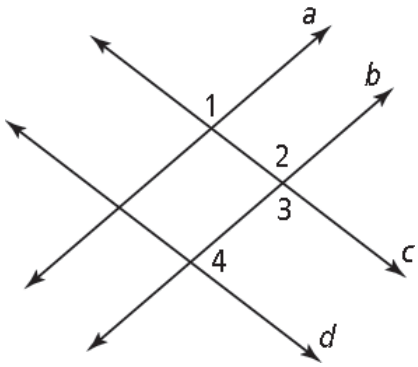
1. Be able to identify/Calculate Angle Relationships

Practice Identifying Angle Relationship in the figures below and calculating the value of each angle if $m\angle 1 = 35°$. Give a reason for each.

a. $d \parallel e,\ s \parallel t$

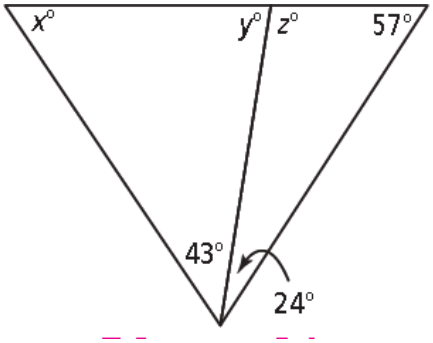


b. $a \parallel b,\ c \parallel d$

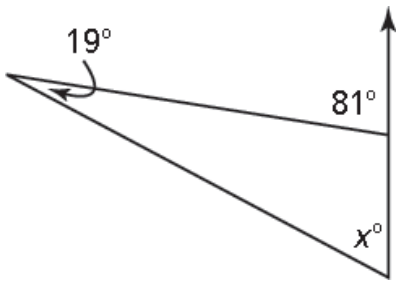


2. Be able to calculate missing angles in a figure.

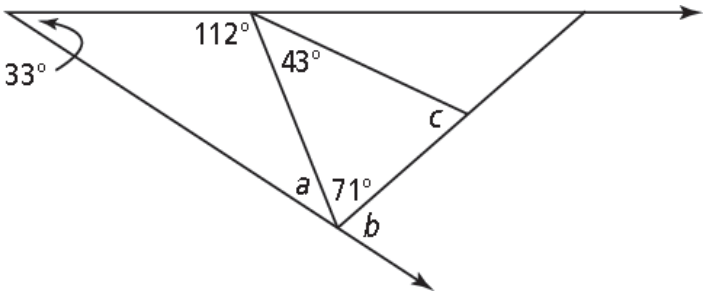
    a. Practice calculating the missing angles in the figures below.



b.

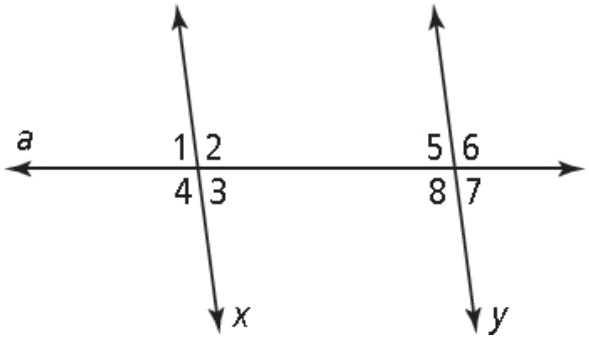


c. Find the values of angles $\angle a$, $\angle b$, and $\angle c$ below.



3. Be able to fill in missing parts of a Two Column Proof.

Complete the two-column proof.



Given: $x \parallel y$

Prove: $\angle 3 \cong \angle 5$

Statements	Reasons
1) $x \parallel y$	**1)**
2) $m\angle 3 + m\angle 8 = 180°$	**2)**
3) $m\angle 5 + m\angle 8 = 180°$	**3)**
4)	**4)** Transitive Property of Equality
5)	**5)** Subtraction Property of Equality
6)	**6)** Definition of congruence