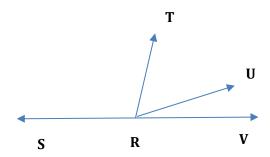
Review / Introduction

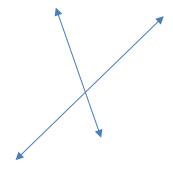
- 1. Line ray segment
- 2. Angles: right angle, straight angle

3. Adjacent angles: supplementary and complementary

Example 1: Name the angles Write the given and calculate all angels



4. Vertical angles



5. Parallel lines, parallel lines with a transverse



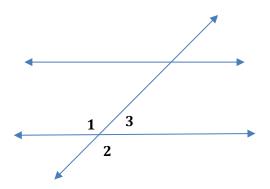
a) interior and exterior angles

b) corresponding angles

b) alternative angles

Example 2:

- a)Find the corresponding angle of 41
- b) the opposite angle of 42
- c) draw the alternative interior angle of \$1
- d) draw the alternative exterior angle of $\angle 2(1)$
- e) Find all angles equal to angle 43



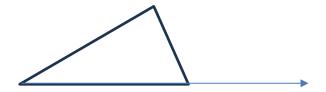
Example 3: Which of the following relations are correct

- a) 4x = 4a
- b) $\angle x = \angle b$
- c) $\angle y = \angle b$
- d) $4x + 4y = 180^{\circ}$
- e) 4x + 4y = 4a + 4b

Theorem (interior angles):

If two lines are intersected with a transverse, then the alternative interior angles are equal. If the interior angles of two lines intersected with a transverse are equal, then the lines are parallel.

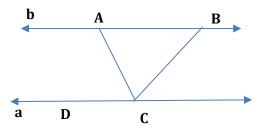
- 6. Triangles, angles in a triangle
- a) interior angle rules
- b) exterior angles
- 7. Area of a triangle



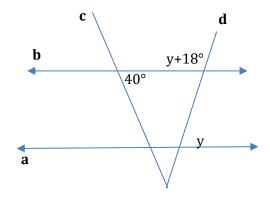


Problems

1. Given: $a \parallel b$ $\angle ABC = 34^{\circ}$ $\angle BAC = \angle ACB$ $\angle ACD = ?$



2. Write the Given and find $\angle y$



3. Describe what is wrong with these triangles (values to be added by the teacher in class)

a)



b)

c)



 $4. \, Find the areas of the triangles (values to be added by the teacher in class)$

a)



b)



c)

5. Write the Given and find the value of angle $\angle CAB$ in the triangle

Given:

