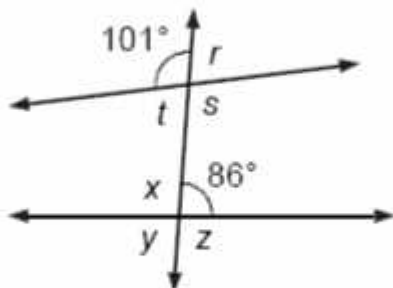


## Study Link 6-11 Finding Unknown Angles

1. Find each missing angle measure. Do not use a protractor.

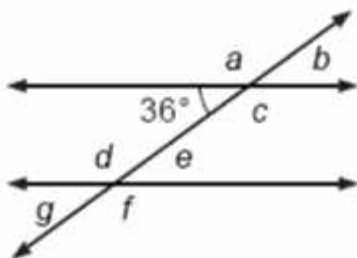


$m\angle r =$  \_\_\_\_\_  $m\angle x =$  \_\_\_\_\_

$m\angle s =$  \_\_\_\_\_  $m\angle y =$  \_\_\_\_\_

$m\angle t =$  \_\_\_\_\_  $m\angle z =$  \_\_\_\_\_

2. Two parallel lines are intersected by a transversal. Find each missing angle measure. Do not use a protractor.



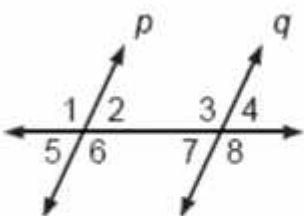
$m\angle d =$  \_\_\_\_\_

$m\angle a =$  \_\_\_\_\_  $m\angle e =$  \_\_\_\_\_

$m\angle b =$  \_\_\_\_\_  $m\angle f =$  \_\_\_\_\_

$m\angle c =$  \_\_\_\_\_  $m\angle g =$  \_\_\_\_\_

3. Lines  $p$  and  $q$  are parallel.



a. Which angles have the same measure as  $\angle 1$ ?

\_\_\_\_\_

b. Which angles are supplementary to  $\angle 1$ ?

\_\_\_\_\_

c. If  $m\angle 1 = 115^\circ$ , find the measure of each angle.

$m\angle 1 =$  115°     $m\angle 2 =$  \_\_\_\_\_     $m\angle 3 =$  \_\_\_\_\_

$m\angle 4 =$  \_\_\_\_\_     $m\angle 5 =$  \_\_\_\_\_     $m\angle 6 =$  \_\_\_\_\_

$m\angle 7 =$  \_\_\_\_\_     $m\angle 8 =$  \_\_\_\_\_