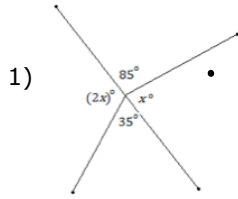
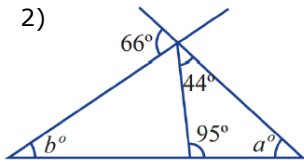


HW Answers 1.1



$x = 80^\circ$

Angles at a point sum to  $360^\circ$



$a = 41^\circ$

Angles in a triangle sum to  $180^\circ$

$b = 25^\circ$

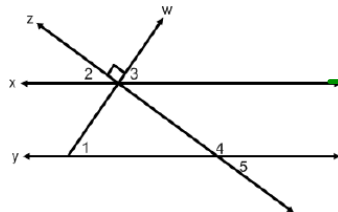
Linear pairs from supplementary angles

Consecutive adjacent angles on a line sum to  $180^\circ$

Angles in a triangle sum to  $180^\circ$

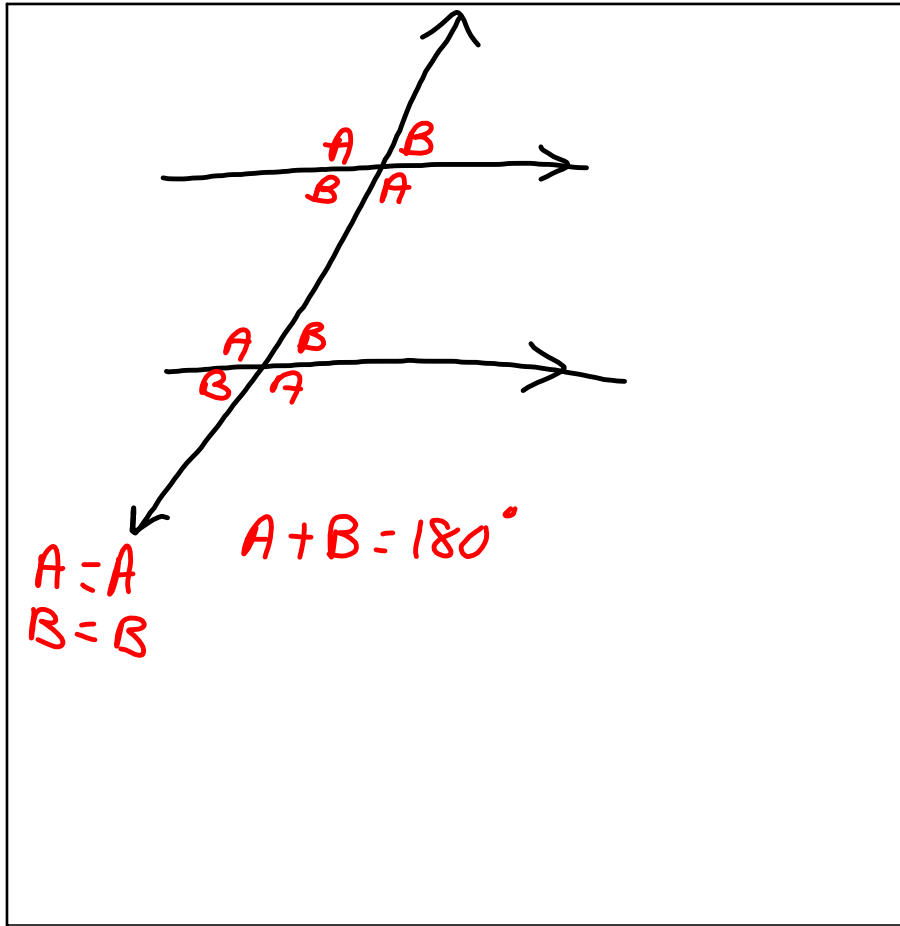
Sep 5-8:35 AM

3) Parallel lines  $x$  and  $y$  are cut by transversal  $z$ . Ray  $w$  is perpendicular to line  $z$ . If the  $m\angle 1 = 58^\circ$ , find the remaining numbered angles. State the geometric reason for each step.

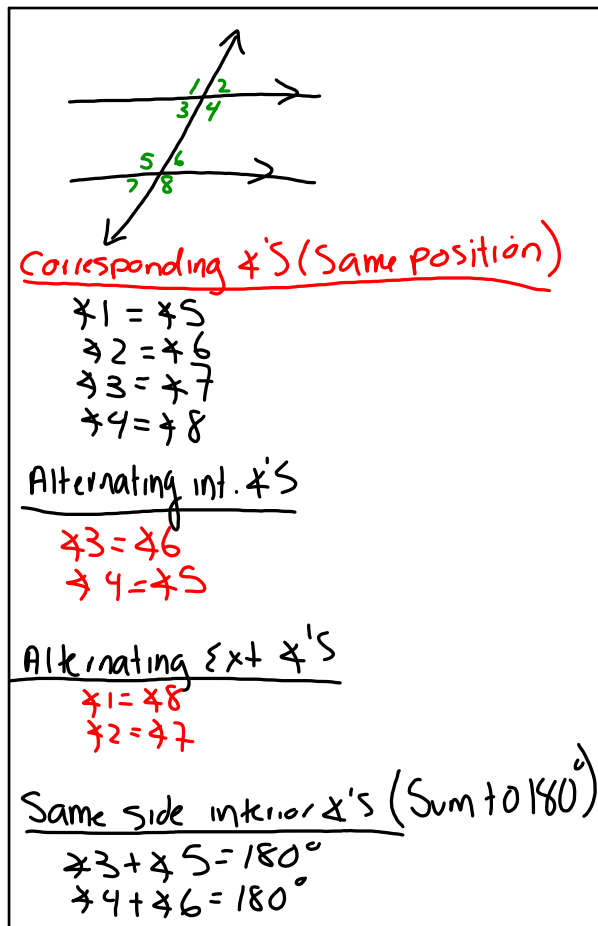


Angle	Angle Measure	Reason
$\angle 2$	$32^\circ$	Consecutive adjacent angles on a line sum to $180^\circ$
$\angle 3$	$58^\circ$	Vertical angles are equal in measure
$\angle 4$	$148^\circ$	Linear pairs form supplementary angles
$\angle 5$	$32^\circ$	Linear pairs form supplementary angles or Vertical angles are equal in measure

Aug 31-8:51 PM

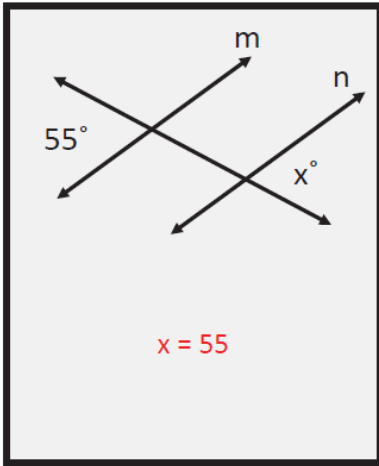


Sep 5-12:04 PM

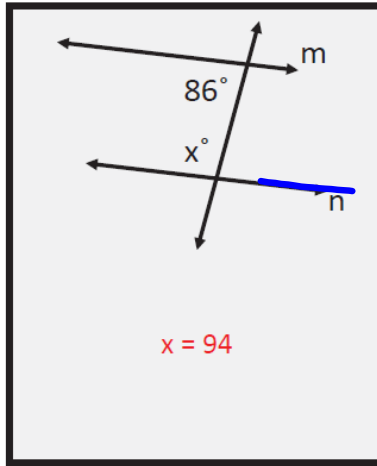


Sep 5-12:06 PM

Lines  $m$  and  $n$  are parallel. Solve for  $x$ .



$x = 55$



$x = 94$

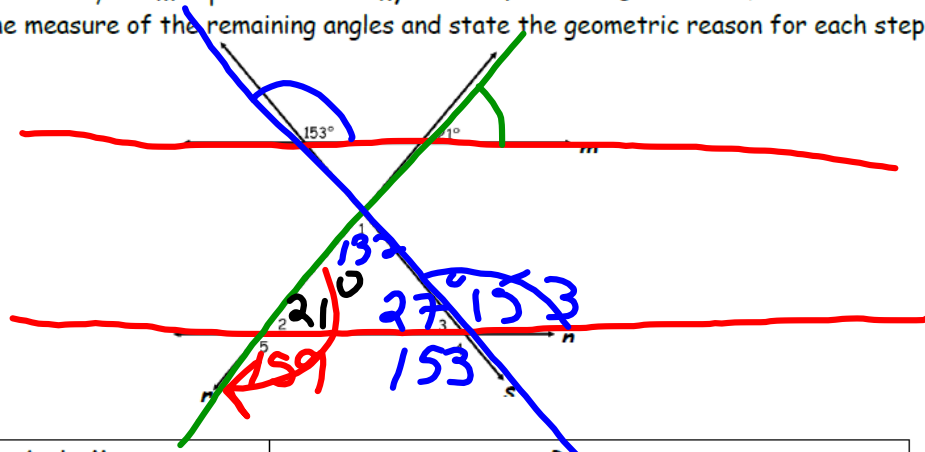
Warm-up B

Alt. Ext.  $\angle$ 's

Same Side Interior  $\angle$ 's  
 $86 + x = 180^\circ$

Sep 5-8:39 AM

4) In the diagram below, line  $m$  is parallel to line  $n$ , and line  $r$  and line  $s$  are transversals. Determine the measure of the remaining angles and state the geometric reason for each step.



Angle	Angle Measure	Reason
$\angle 1$	$132^\circ$	int. $\angle$ 's of a $\Delta$ sum to 180
$\angle 2$	$21^\circ$	Corresp. $\angle$ 's are $\cong$ .
$\angle 3$	$27^\circ$	linear pairs are suppl.
$\angle 4$	$153^\circ$	Vertical $\angle$ 's are $\cong$ .
$\angle 5$	$159^\circ$	linear pairs are suppl.

Sep 5-12:24 PM

warm up

alt. ext.  $\angle$ 's

$$x+18 = 7x$$

$$18 = 6x$$

$$x = 3$$

Same side interior

$$2x + x = 180$$

$$3x = 180$$

$$x = 60$$

Sep 6-1:28 PM

Exit Ticket:

Angle	Angle Measure	Reason
$\angle 2$	$140^\circ$	Vertical $\angle$ 's ( $\angle 2 \neq \angle 10$ )
$\angle 3$	$40^\circ$	If two parallel lines are cut by a transversal, then corresponding angles are equal in measure. $\angle 1 \neq \angle 3$ are corresp. $\angle$ 's
$\angle 4$	$50^\circ$	Consecutive adjacent $\angle$ 's sum to $180^\circ$
$\angle 5$	$90^\circ$	Vertical angles are equal in measure
$\angle 6$	$40^\circ$	Vertical angles are equal in measure
$\angle 7$	$50^\circ$	Vertical angles are equal in measure
$\angle 8$	$40^\circ$	Consecutive adjacent angles on a line sum to $180^\circ$
$\angle 9$	$40^\circ$	Vertical angles are equal in measure
$\angle 10$	$140^\circ$	Linear pairs are supplementary or vertical angles are equal in measure

are supplementary)

Aug 31-6:25 PM

alt ext.  
 $x + 18 = 7x$   
 $18 = 6x$   
 $x = 3$

$2x + x = 180$   
 $3x = 180$   
 $x = 60$

Sep 6-11:54 AM

alt ext  $\angle$ 's

alt int  $\angle$ 's

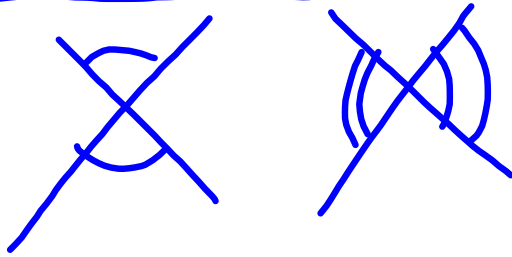
vertical  $\angle$ 's

corresponding  $\angle$ 's

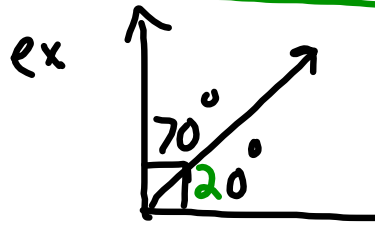
same side interior

Sep 6-12:16 PM

Vertical  $\angle$ 's

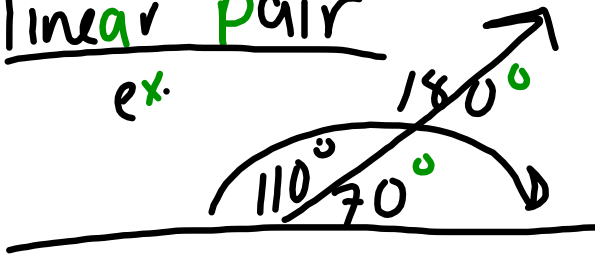


Complementary  $\angle$ 's



Linear pair

ex.



Sep 6-12:39 PM

Maze Activity

Sep 6-1:09 PM