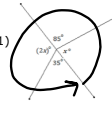
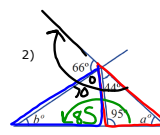


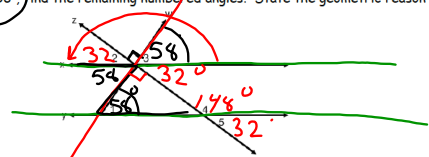
HW Answers 1.1

1)  $x = 80^\circ$
Angles at a point sum to 360°

2)  $a = 41^\circ$
Angles in a triangle sum to 180°
 $b = 114^\circ$
Linear pairs from supplementary angles
Consecutive adjacent angles on a line sum to 180°
Angles in a triangle sum to 180°

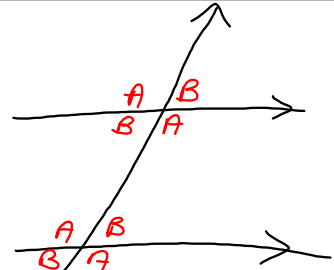
Sep 5-8:35 AM

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.



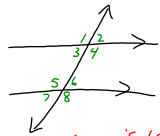
Angle	Angle Measure	Reason
$\angle 2$	32°	Consecutive adjacent angles on a line sum to 180°
$\angle 3$	58°	Vertical angles are equal in measure
$\angle 4$	148°	Linear pairs form supplementary angles
$\angle 5$	32°	Linear pairs form supplementary angles or Vertical angles are equal in measure

Aug 31-8:51 PM



$A = A$
 $B = B$
 $A + B = 180^\circ$

Sep 5-12:04 PM



Corresponding \angle 's (Same Position)

$\angle 1 = \angle 5$
 $\angle 2 = \angle 6$
 $\angle 3 = \angle 7$
 $\angle 4 = \angle 8$

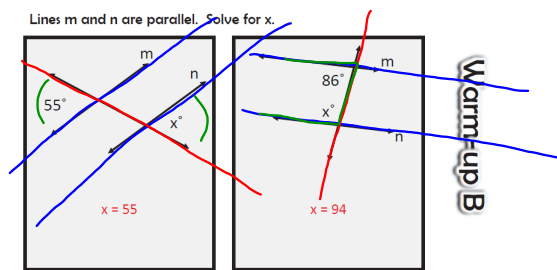
Alternating int. \angle 's ~~$\angle 3 = \angle 6$~~ ~~$\angle 4 = \angle 5$~~

Alternating ext. \angle 's ~~$\angle 1 = \angle 8$~~ ~~$\angle 2 = \angle 7$~~

Same side interior \angle 's (Sum to 180°)
 ~~$\angle 3 + \angle 5 = 180^\circ$~~
 ~~$\angle 4 + \angle 6 = 180^\circ$~~

Sep 5-12:06 PM

Lines m and n are parallel. Solve for x .



Warm-up B

Alt. Ext. \angle 's $x = 55$
Same Side Interior \angle 's $86 + x = 180^\circ$
 $x = 94$

Sep 5-8:39 AM