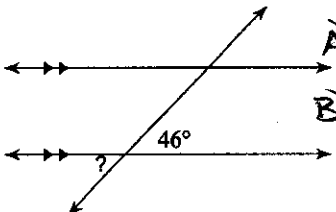
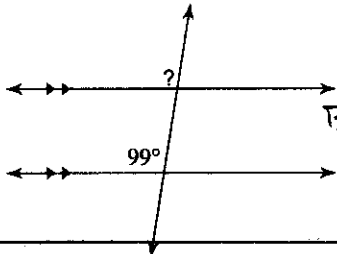
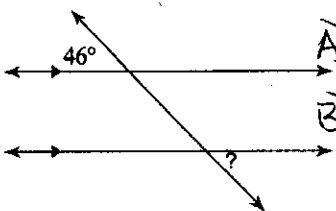


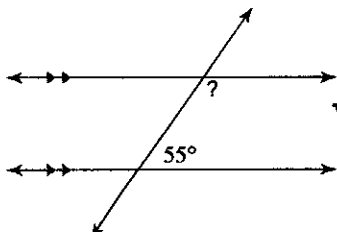
Assignment - Day 2 Parallel Lines & Transversals Date \_\_\_\_\_ Period \_\_\_\_\_

A) Identify the pair of angles as corresponding, alternate interior, alternate exterior, consecutive interior, linear pair, vertical, or adjacent.  
 B) Find the measure of each angle indicated.

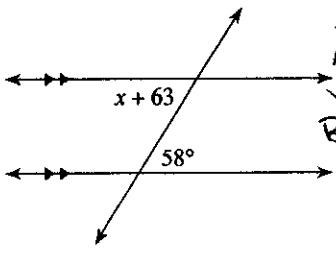
1)  A) Vertical  
 B)  $? = 46^\circ$

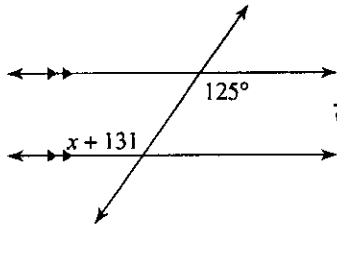
2)  A) Corresponding  
 B)  $? = 99^\circ$

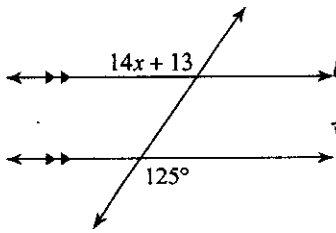
3)  A) Alt. Ext.  
 B)  $46^\circ = ?$

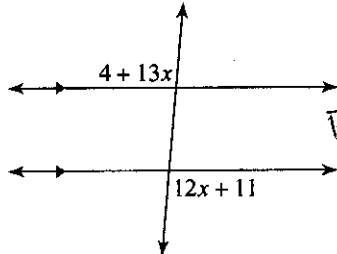
4)  A) Consect. Int.  
 B)  $? + 55 = 180$   
 $\quad -55 \quad -55$   
 $\quad \quad ? = 25^\circ$

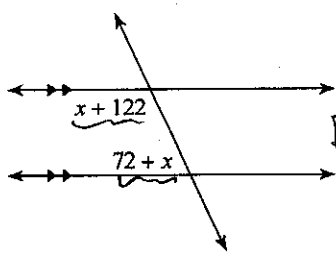
A) Identify the pair of angles as corresponding, alternate interior, alternate exterior, consecutive interior, linear pair, vertical, or adjacent.  
 B) Solve for x.

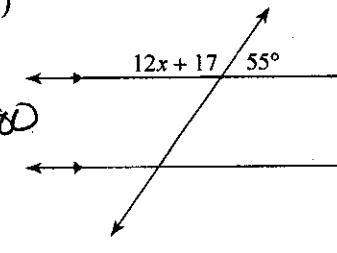
5)  A) Alt. Int.  
 B)  $x + 63 = 58$   
 $\quad -63 \quad -63$   
 $\quad \quad x = -5$

6)  A) Alt. Int  
 B)  $x + 131 = 125$   
 $\quad -131 \quad -131$   
 $\quad \quad x = -6$

7)  A) Alt. Ext.  
 B)  $14x + 13 = 125$   
 $\quad -13 \quad -13$   
 $\quad \quad \frac{14x}{14} = \frac{112}{14}$   
 $\quad \quad x = 8$

8)  A) Alt. Ext.  
 B)  $4 + 13x = 12x + 11$   
 $\quad -12x \quad -12x$   
 $\quad \quad 4 + x = 11$   
 $\quad \quad -4 \quad -4$   
 $\quad \quad \quad x = 7$

9)  A) Consect. Int  
 B)  $x + 122 + 72 + x = 180$   
 $\quad 2x + 194 = 180$   
 $\quad -194 \quad -194$   
 $\quad \quad 2x = -14$   
 $\quad \quad \quad x = -7$

10)  A) Linear Pair  
 B)  $12x + 17 + 55 = 180^\circ$   
 $\quad 12x + 72 = 180$   
 $\quad -72 \quad -72$   
 $\quad \quad 12x = 108$   
 $\quad \quad \quad x = 9$

A) Identify the pair of angles as corresponding, alternate interior, alternate exterior, consecutive interior, linear pair, vertical, or adjacent.

B) Find the value of  $x$  then plug it back in to find the measure of the angle indicated in bold.

11)

A) Correspond.

B)  $-2 + 12x = 11x + 4$   
 $-11x - 11x$   
 $-2 + x = 4$   
 $+2 +2$   
 $x = 6$

$-2 + 12x$   
 $-2 + 12(6)$   
 $-2 + 72$   
 $70^\circ$

12)

A) Alt. Int.

B)  $11x - 1 = 9x + 21$   
 $-9x -9x$   
 $2x - 1 = 21$   
 $+1 +1$   
 $2x = 22$   
 $x = 11$

$11x - 1$   
 $11(11) - 1$   
 $121 - 1$   
 $120^\circ$

13)

A) Alt. Ext.

B)  $9 + 16x = 17x + 3$   
 $-16x -16x$   
 $9 = x + 3$   
 $-3 -3$   
 $6 = x$

$9 + 16x$   
 $9 + 16(6)$   
 $9 + 96$   
 $105^\circ$

14)

A) Consec. Int.

B)  $x + 118 + x + 78 = 180$   
 $2x + 196 = 180$   
 $-196 -196$   
 $2x = -16$   
 $x = -8$

$x + 118$   
 $-8 + 118$   
 $110^\circ$

$x + 78$   
 $-8 + 78$   
 $70^\circ$

15)

A) Correspond

B)  $26x = 27x - 5$   
 $-26x -26x$   
 $0 = x - 5$   
 $+5 +5$   
 $5 = x$

$26x$   
 $26(5)$   
 $130^\circ$

16)

A) Alt. Ext.

B)  $8x + 19 = 10x - 5$   
 $-8x -8x$   
 $19 = 2x - 5$   
 $+5 +5$   
 $24 = 2x$   
 $2 2$   
 $12 = x$

$8x + 19$   
 $8(12) + 19$   
 $115^\circ$