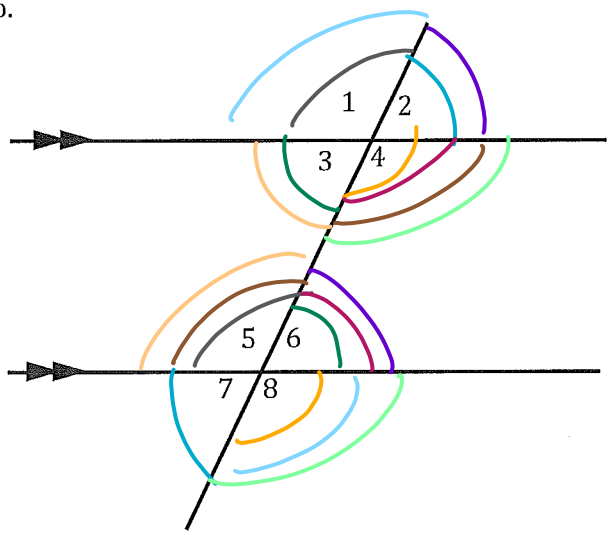
12.4 Review Packet

For our first exercise, bubble the correct answer choice for each item below. Refer to the previous pages if you need to.



1. ∠1 and ∠5 are...
   - A. Corresponding
   - B. Alternate Interior
   - C. Alternate Exterior
   - D. Consecutive

2. ∠8 and ∠4 are...
   - A. Corresponding
   - B. Alternate Interior
   - C. Alternate Exterior
   - D. Consecutive

3. ∠2 and ∠7 are...
   - A. Corresponding
   - B. Alternate Interior
   - C. Alternate Exterior
   - D. Consecutive

4. ∠3 and ∠6 are...
   - A. Corresponding
   - B. Alternate Interior
   - C. Alternate Exterior
   - D. Consecutive

5. ∠6 and ∠4 are...
   - A. Corresponding
   - B. Alternate Interior
   - C. Alternate Exterior
   - D. Consecutive

6. ∠2 and ∠6 are...
   - A. Corresponding
   - B. Alternate Interior
   - C. Alternate Exterior
   - D. Consecutive

7. ∠4 and ∠5 are...
   - A. Corresponding
   - B. Alternate Interior
   - C. Alternate Exterior
   - D. Consecutive

8. ∠1 and ∠8 are...
   - A. Corresponding
   - B. Alternate Interior
   - C. Alternate Exterior
   - D. Consecutive

9. ∠3 and ∠5 are...
   - A. Corresponding
   - B. Alternate Interior
   - C. Alternate Exterior
   - D. Consecutive

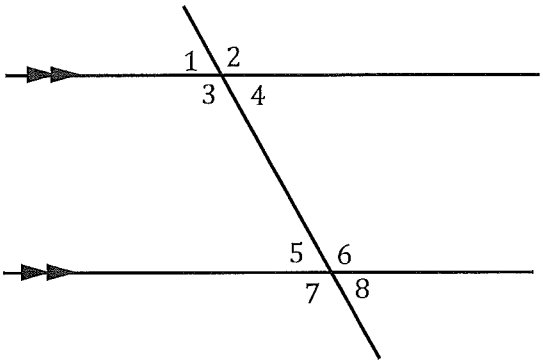
10. ∠4 and ∠8 are...
    - A. Corresponding
    - B. Alternate Interior
    - C. Alternate Exterior
    - D. Consecutive

Great Job, these are tough to remember which is which. If you are struggling, go back and try to memorize what each one looks like. (like remembering a picture) If you do that these will become very easy. Let's do some more!

Bubble the correct answer choice from each item above.

#1.	#2.	#3.	#4.	#5.	#6.	#7.	#8.	#9.	#10.
○A.	○A.	○A.	○A.	○A.	○A.	○A.	○A.	○A.	○A.
○B.	○B.	○B.	○B.	○B.	○B.	○B.	○B.	○B.	○B.
○C.	○C.	○C.	○C.	○C.	○C.	○C.	○C.	○C.	○C.
○D.	○D.	○D.	○D.	○D.	○D.	○D.	○D.	○D.	○D.

For each, state the angle relationship.



1. Angle ∠1 and ∠8 are... alternate exterior angles

2. Angle ∠3 and ∠5 are... consecutive int.

3. Angle ∠1 and ∠5 are... corresponding

4. Angle ∠4 and ∠8 are... corresponding

5. Angle ∠2 and ∠6 are... corresponding

6. Angle ∠4 and ∠5 are... alt. int.

7. Angle ∠2 and ∠7 are... alt. ext

8. Angle ∠3 and ∠6 are... alt. int.

9. Angle ∠4 and ∠6 are... consecutive int.

10. Angle ∠3 and ∠7 are... corresponding

The next set might have some from other sections! You can do it!

11. Angle ∠7 and ∠6 are... vertical angles

12. Angle ∠5 and ∠7 are... linear pair

13. Angle ∠1 and ∠4 are... vertical

14. Angle ∠6 and ∠3 are... alt. int

15. Angle ∠5 and ∠6 are... linear pair

16. Angle ∠7 and ∠8 are... linear pair

17. Angle ∠7 and ∠3 are... corresponding

18. Angle ∠5 and ∠8 are... Vertical

Okay good, you're getting faster at it I bet. Let's do some matching. Write the letter of each picture in the right column in the blank next to its description in the left column.

A 1. alternate interior angles

D 2. corresponding angles

I 3. alternate exterior angles

E 4. complementary angles

add to 90°

C 5. vertical angles

B 6. supplementary angles

add to 180°

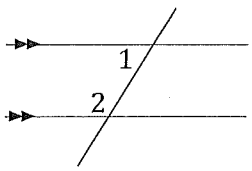
F 7. linear pair

A 8. consecutive angles

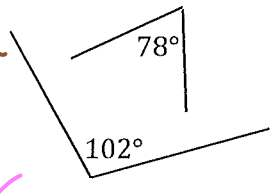
H 9. adjacent angles

side by side

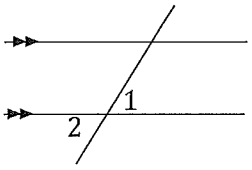
A.



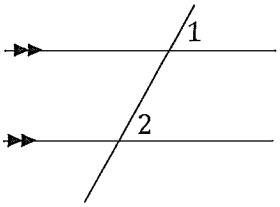
B.



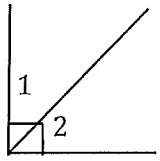
C.



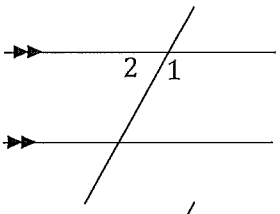
D.



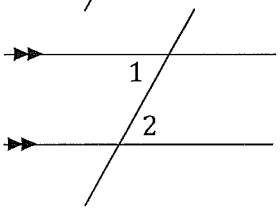
E.



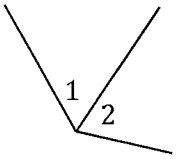
F.



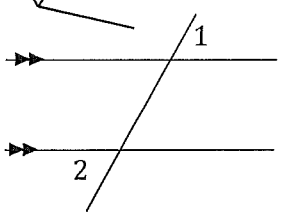
G.



H.

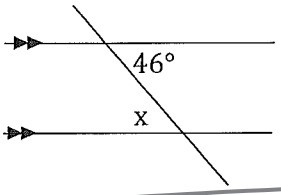


I.



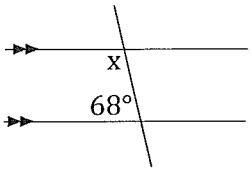
On these state the angle relationship, ~~write a statement about whether they add to 180° or are equal~~, and solve for x if necessary.

1. alt. int.



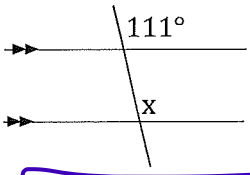
X = 46

2. consecutive int.



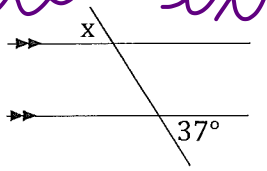
x + 68 = 180
−68 −68
X = 112

3. corresponding



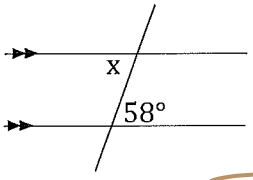
X = 111

4. alt. ext.



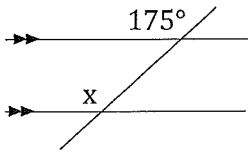
X = 37

5. alt. int.



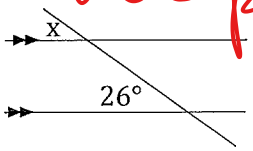
X = 58

6. corresponding



X = 175

7. corresponding



X = 26

Bubble all the correct answers from above. Don't bubble incorrect answers.

○37° ○143° ○69° ○46° ○175° ○122° ○58° ○68° ○154° ○26° ○64° ○112° ○75° ○111°

vertical $x+27=2x-17$

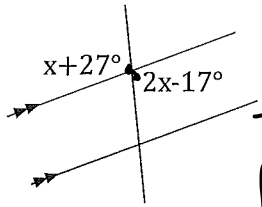
$-x \quad -x$

$27 = x - 17$

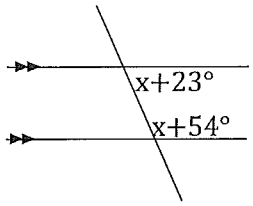
$+17 \quad +17$

$44 = x$

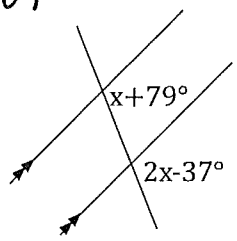
8.)



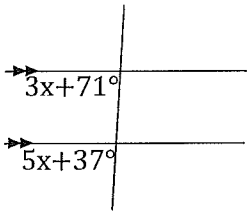
9.)



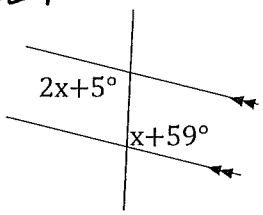
10.)



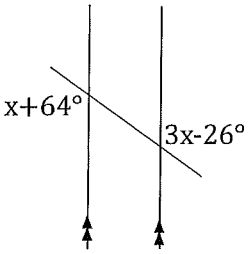
11.)



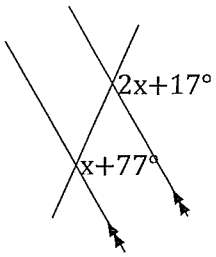
12.)



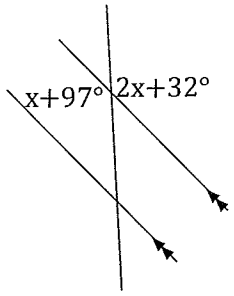
13.)



14.)



15.)



Bubble all the correct answers from above. Don't bubble incorrect answers.

○31° ○116° ○20° ○17° ○54° ○98° ○51.5° ○45° ○60° ○72.5° ○65° ○44° ○30.5° ○24°