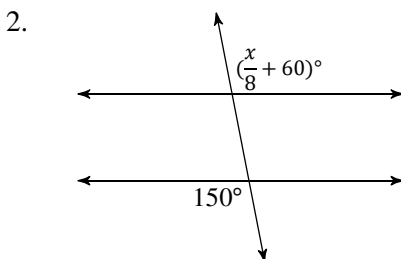
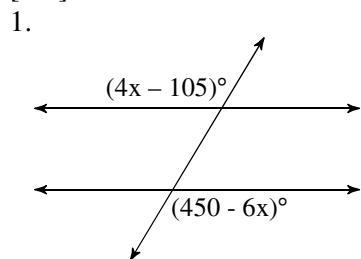


**Math 2 Unit 1**  
**Review Worksheet**

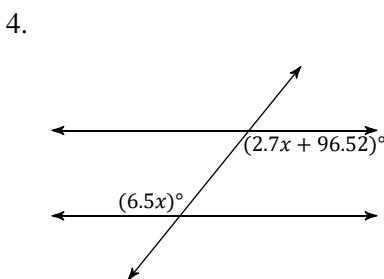
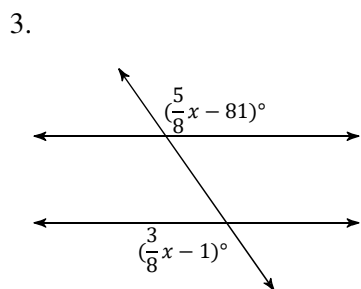
Name: \_\_\_\_\_  
Date: \_\_\_\_\_ Per: \_\_\_\_\_

[1-4] Find the value of x that makes lines parallel.



1. \_\_\_\_\_

2. \_\_\_\_\_



3. \_\_\_\_\_

4. \_\_\_\_\_

[5-13] Simplify.

5.  $\pm 2\sqrt{28}$

6.  $-\sqrt{80}$

7.  $7\sqrt{52}$

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8.  $-6\sqrt{6} \cdot 2\sqrt{3}$

9.  $\sqrt{10} \cdot \sqrt{15} \cdot \sqrt{5}$

10.  $(-6\sqrt{21}) \cdot (-2\sqrt{14})$

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11.  $-9\sqrt{252}$

12.  $5\sqrt{2} \cdot 5\sqrt{2}$

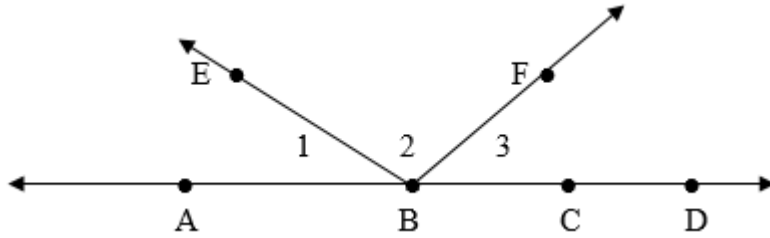
13.  $(3\sqrt{6})^2$

11. \_\_\_\_\_

12. \_\_\_\_\_

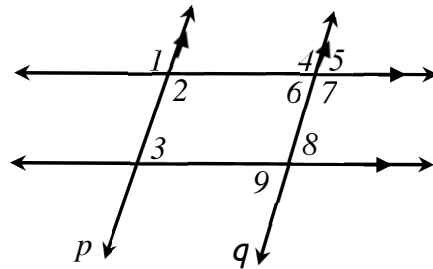
13. \_\_\_\_\_

[14-20] Use the figure to answer the questions.



14. Name the vertex and the sides of  $m\angle 3$ . 14. \_\_\_\_\_
15. Name a linear pair. 15. \_\_\_\_\_
16. Name two pairs of opposite rays. 16. \_\_\_\_\_
17. What angle is adjacent to  $\angle FBD$ ? 17. \_\_\_\_\_
18. What angle is formed by combining angles 1 and 2? 18. \_\_\_\_\_
19. Find  $m\angle ABF$  if  $m\angle FBC = 48^\circ$ . 19. \_\_\_\_\_
20.  $m\angle 1 = (2x - 19)^\circ$ ,  $m\angle 2 = (5x)^\circ$ ,  $m\angle 3 = (2x + 1)^\circ$  Find  $m\angle 3$ . 20. \_\_\_\_\_

[21-26] Use the figure to answer the questions.



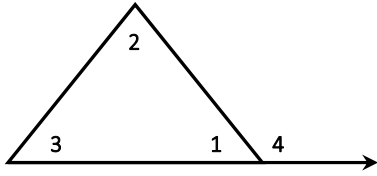
[21-25] Name two pairs of each type of angles

21. Corresponding \_\_\_\_\_ & \_\_\_\_\_      22. Alternate interior \_\_\_\_\_ & \_\_\_\_\_      23. Vertical \_\_\_\_\_ & \_\_\_\_\_

24. Alternate exterior \_\_\_\_\_ & \_\_\_\_\_      25. Same-side interior (consecutive interior) \_\_\_\_\_ & \_\_\_\_\_

26. Suppose  $m\angle 9 = 78^\circ$  and  $m\angle 6 = (10x + 8)^\circ$  find the value of  $x$  and the  $m\angle 6$  ?  
 $x =$  \_\_\_\_\_  
 $m\angle 6 =$  \_\_\_\_\_

[27-30] In a triangle,  $\angle 1$ ,  $\angle 2$ , and  $\angle 3$  are interior angles, and  $\angle 4$  is an exterior angle with remote interior angles  $\angle 2$ ,  $\angle 3$ . Find the missing angles measures. Show all work for full credit.



27.  $m\angle 2 = 60^\circ$  and  $m\angle 3 = 80^\circ$

28.  $m\angle 4 = 100^\circ$  and  $m\angle 2 = 40^\circ$

27.  $m\angle 1 = \underline{\hspace{2cm}}$

$m\angle 4 = \underline{\hspace{2cm}}$

28.  $m\angle 1 = \underline{\hspace{2cm}}$

$m\angle 3 = \underline{\hspace{2cm}}$

29.  $m\angle 1 = 75^\circ$  and  $m\angle 3 = 20^\circ$

30.  $m\angle 4 = 110^\circ$  and  $m\angle 3 = 70^\circ$

29.  $m\angle 2 = \underline{\hspace{2cm}}$

$m\angle 4 = \underline{\hspace{2cm}}$

30.  $m\angle 1 = \underline{\hspace{2cm}}$

$m\angle 3 = \underline{\hspace{2cm}}$