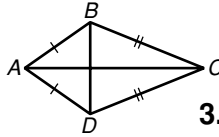


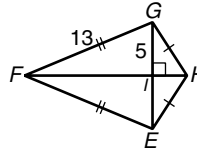
**LESSON** **Practice B**  
**6-6 Properties of Kites and Trapezoids**

In kite  $ABCD$ ,  $m\angle BAC = 35^\circ$  and  $m\angle BCD = 44^\circ$ .  
 For Exercises 1–3, find each measure.

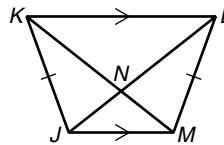
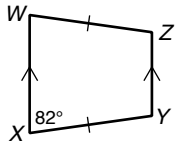


1.  $m\angle ABD$  \_\_\_\_\_
2.  $m\angle DCA$  \_\_\_\_\_
3.  $m\angle ABC$  \_\_\_\_\_

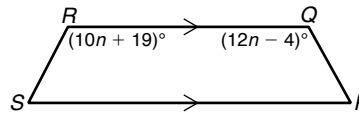
4. Find the area of  $\triangle EFG$ . \_\_\_\_\_



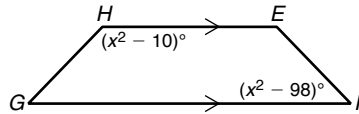
5. Find  $m\angle Z$ . \_\_\_\_\_
6.  $KM = 7.5$ , and  $NM = 2.6$ . Find  $LN$ . \_\_\_\_\_



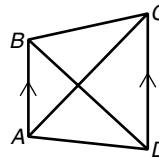
7. Find the value of  $n$  so that  $PQRS$  is isosceles. \_\_\_\_\_



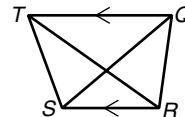
8. Find the value of  $x$  so that  $EFGH$  is isosceles. \_\_\_\_\_



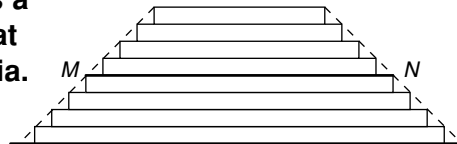
9.  $BD = 7a - 0.5$ , and  $AC = 5a + 2.3$ . Find the value of  $a$  so that  $ABCD$  is isosceles. \_\_\_\_\_



10.  $QS = 8z^2$ , and  $RT = 6z^2 + 38$ . Find the value of  $z$  so that  $QRST$  is isosceles. \_\_\_\_\_



Use the figure for Exercises 11 and 12. The figure shows a **ziggurat**. A ziggurat is a stepped, flat-topped pyramid that was used as a temple by ancient peoples of Mesopotamia. The dashed lines show that a ziggurat has sides roughly in the shape of a trapezoid.



11. Each “step” in the ziggurat has equal height. Give the vocabulary term for  $\overline{MN}$ . \_\_\_\_\_

12. The bottom of the ziggurat is 27.3 meters long, and the top of the ziggurat is 11.6 meters long. Find  $MN$ . \_\_\_\_\_

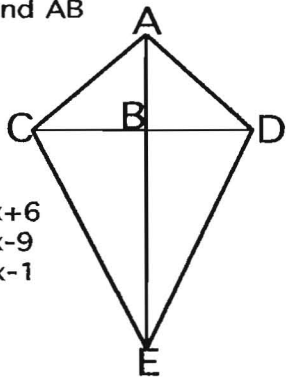
# Name: \_\_\_\_\_ Kites and Trapezoids Worksheet

Chap: Quads

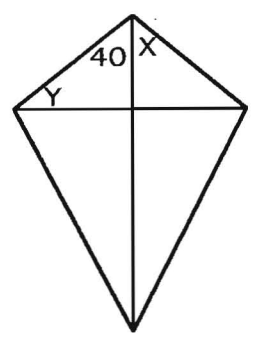
Assign: 31C

1.) Given Kite ADEC  
Find AB

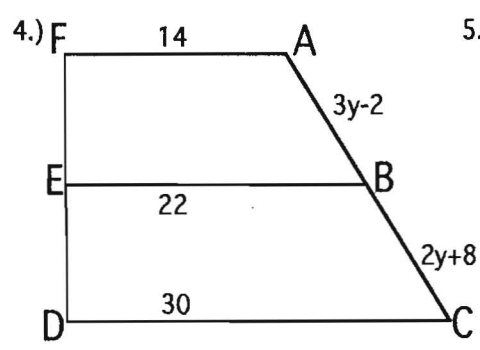
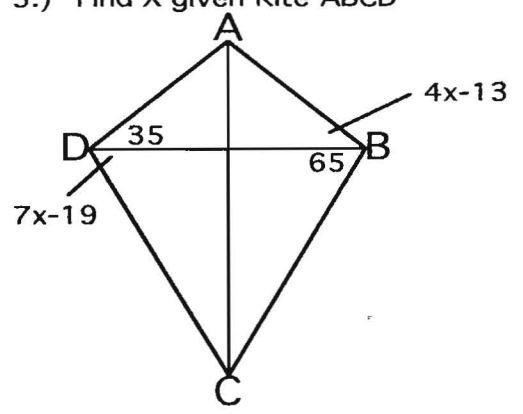
$CB = 3x + 6$   
 $BD = 8x - 9$   
 $AB = 7x - 1$



2.) Given Kite ABCD  
Find X and Y

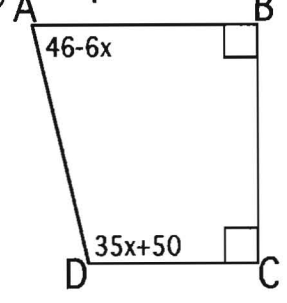


3.) Find X given Kite ABCD

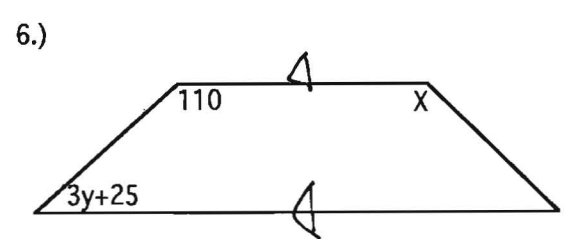


Find AB

5.) Trapezoid ABCD



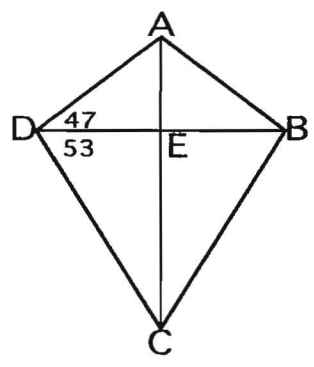
Find  $m\angle D =$



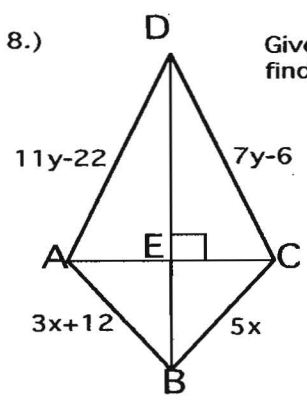
Find X and Y

7.) Given Kite ABCD

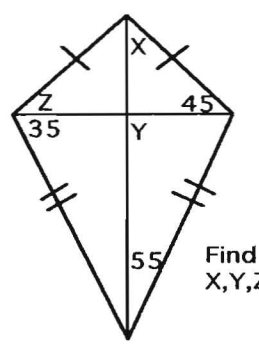
Find  $m\angle ABC$   
 $m\angle CED$   
 $m\angle CEB$



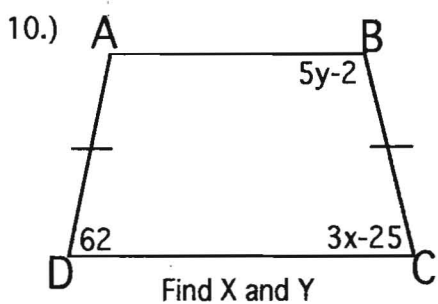
8.) Given Kite DCBA  
find AD and CB



9.)



Find X, Y, Z



Find X and Y

