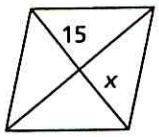
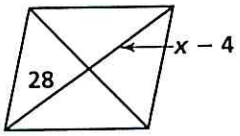
USE AN ALGEBRAIC EQUATION FOR EACH ANGLE OR SIDE FOUND. IF YOU FOUND THE LENGTH OR MEASURE USING A THEOREM, STATE THE THEOREM.

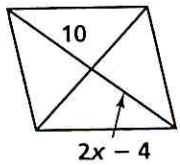
Practice 6-2

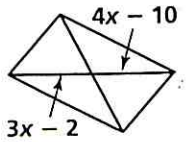
Properties of Parallelograms

Find the value of x in each parallelogram.

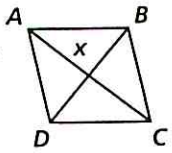
1. 

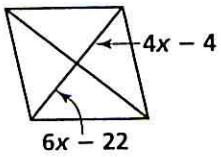
2. 

3. 

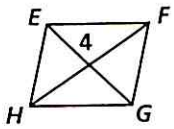
4. 

5. $AC = 24$

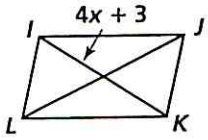


6. 

7. $x = EG$



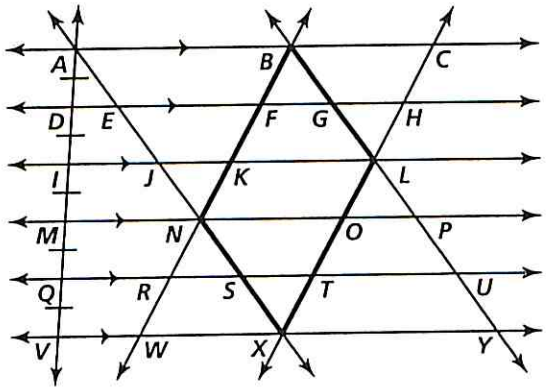
8. $IK = 35$



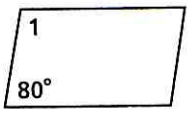
If $AE = 17$ and $BF = 18$, find the measures of the sides of parallelogram $BNXL$.

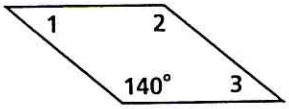
9. BN
10. NX
11. XL
12. BL

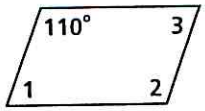
ON 9-12, ARITHMETIC IS OK

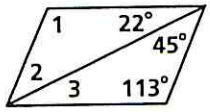


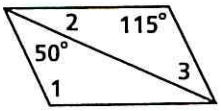
Find the measures of the numbered angles for each parallelogram.

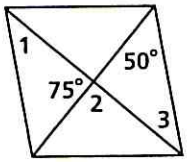
13. 

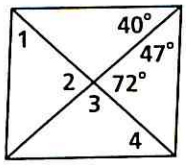
14. 

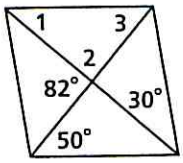
15. 

16. 

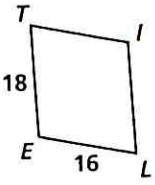
17. 

18. 

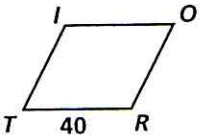
19. 

20. 

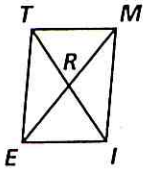
Find the length of $\overline{TI}$ in each parallelogram.

21. 

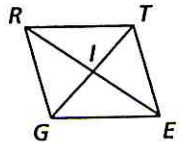
22. $OR = \frac{7}{8}IO$



23. $TR = 14, ME = 31$



24. $IE = 6, GT = 8$



1. 15
2. 32
3. 7
4. 8
5. 12
6. 9
7. 8
8. $3\frac{5}{8}$
9. 54
10. 34
11. 54
12. 34
13. 100
14. 40; 140; 40
15. 70; 110; 70
16. 113; 45; 22
17. 115; 15; 50
18. 55; 105; 55
19. 61; 72; 108; 32
20. 32; 98; 50
21. 16
22. 35
23. 28
24. 4