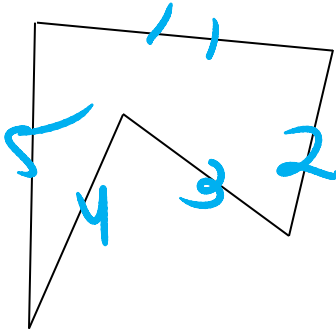


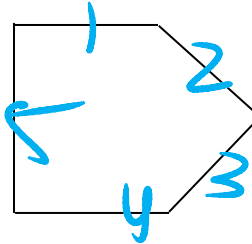
Name Key
Date _____ Period _____
Teacher _____

1 - 4 Determine if each figure is a quadrilateral. If NO, give a reason.

1.



2.



1. YES

NO

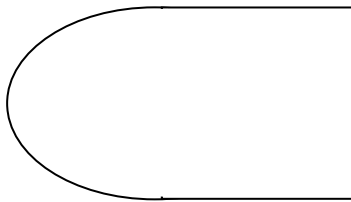
5 sides

2. YES

NO

5 sides

3.

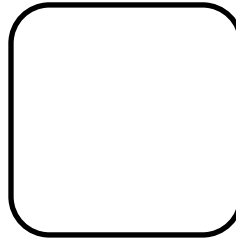


3. YES

NO

curves

4.



4. YES

NO

curves

5-9 Use the following diagram to identify each of the following.

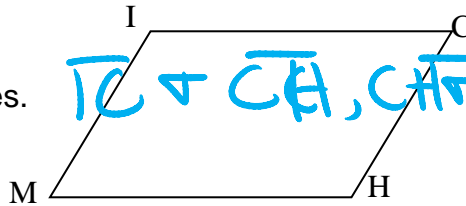
5. Name a diagonal.

6. Name a pair of consecutive sides.

7. Name the side opposite \overline{MI} .

8. Name a pair of **nonconsecutive** angles.

9. Name a pair of consecutive angles.



5.

\overline{HI} or \overline{CM}

6.

\overline{IC} & \overline{CH} , \overline{CH} & \overline{HM} , \overline{MI} & \overline{IC}

7.

\overline{CH}

8.

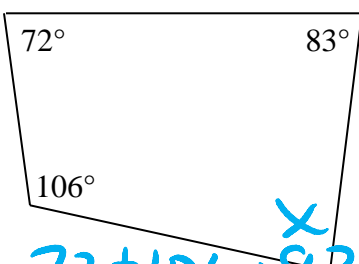
$\angle I$ & $\angle H$, $\angle M$ & $\angle C$

9.

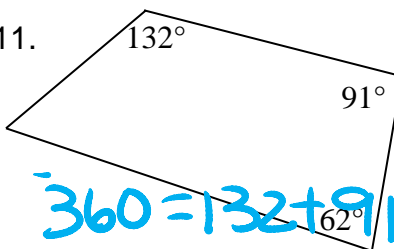
$\angle I$ & $\angle C$, $\angle C$ & $\angle H$, $\angle M$ & $\angle I$

10-14 Find the measure of the missing angle in each quadrilateral.

10.



11.



10.

99°

11.

75°

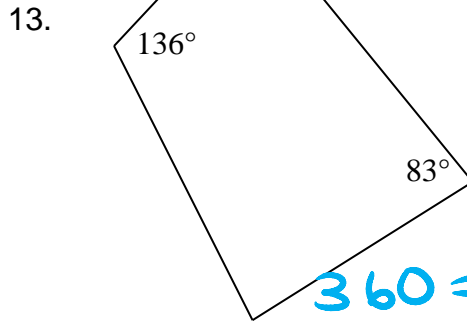
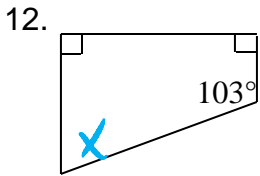
12.

77° on next pg.!!

$360 = 72 + 106 + 83 + x$

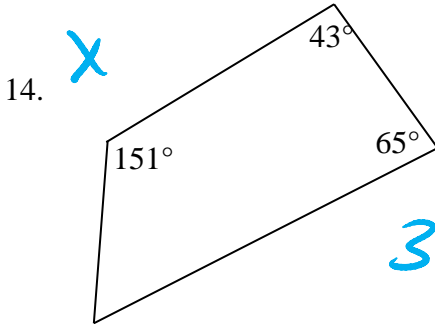
$360 = 132 + 91 + 62 + x$

$$360 = 180 + 103 + x$$



13. 120°

14. 101°

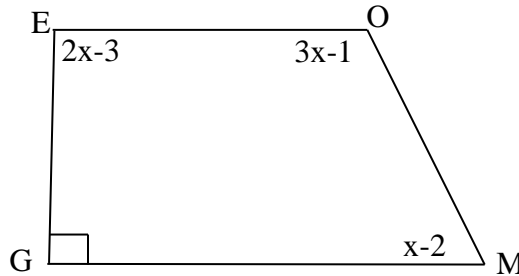


$$360 = 136 + 51 + 83 + x$$

$$360 = 151 + 43 + 65 + x$$

15-20 Find the indicated values.

15. Find x .



15. 46

16. Find $m\angle O$

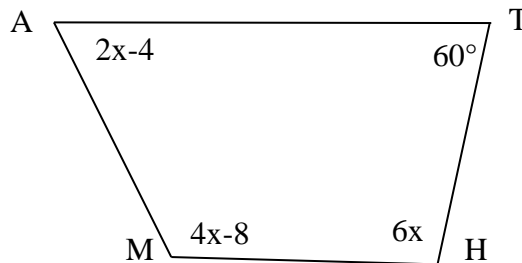
16. 137

$$2x - 3 + 3x - 1 + x - 2 + 90 = 360$$

$$6x - 6 + 90 = 360$$

$$6x = 276 \quad x = 46$$

17. Find x .



17. 26

18. Find $m\angle M$

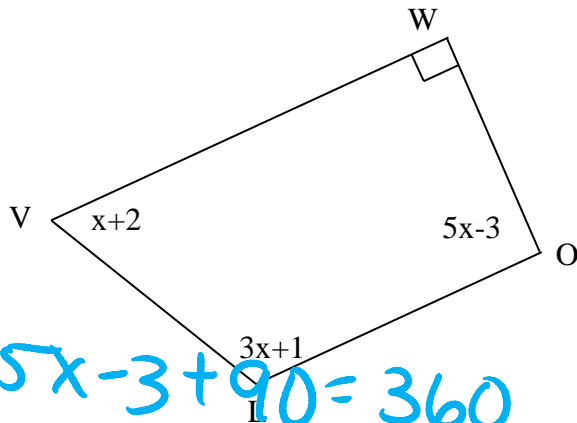
18. 96

$$2x - 4 + 4x - 8 + 6x + 60 = 360$$

$$12x - 12 + 60 = 360 \quad x = 26$$

$$12x = 312$$

19. Find x .



19. 30

20. Find $m\angle O$

$$x+2+3x+1+5x-3+90=360$$

$$9x+90=360$$

20. 147

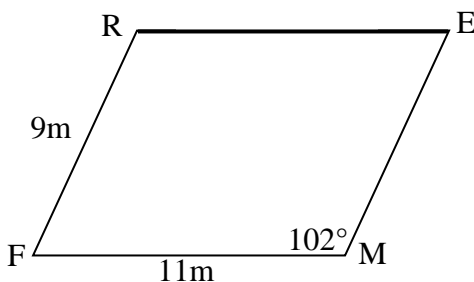
$$9x=270$$

$$x=30$$

21-23 Use parallelogram ABCD to answer the following.

21. Find $m\angle F$.

21. 78°



22. Find $m\angle R$.

22. 102°

23. Find EM .

23. 9m

21. Find $m\angle F$.

change ahh silly me !!

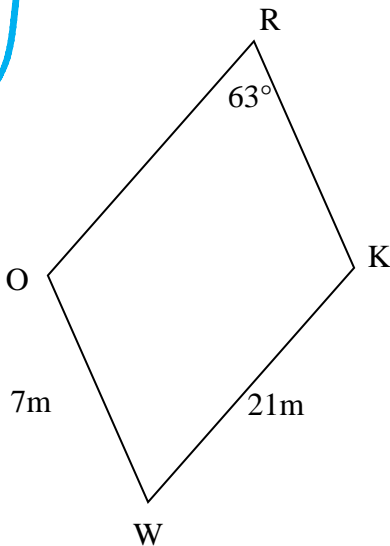
21. 78°

22. Find $m\angle K$.

22. 117°

23. Find OR .

23. 21m



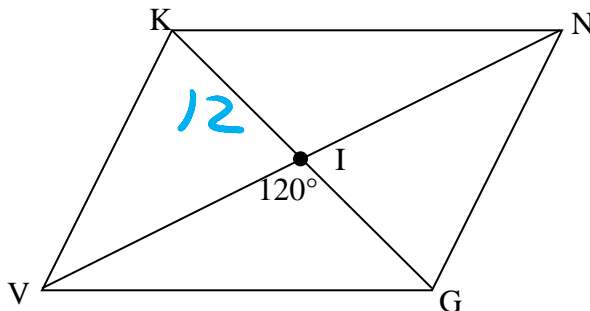
24-18 Given parallelogram VKNG, $KG = 24$ cm, and $VN = 30$ cm.

24. Find KI .

24. 12

25. Find $m\angle VIK$.

25. 60°



26. Find VI.

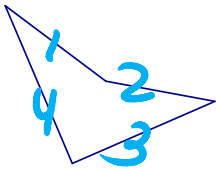
26. 15

27. Find $m\angle KIN$.

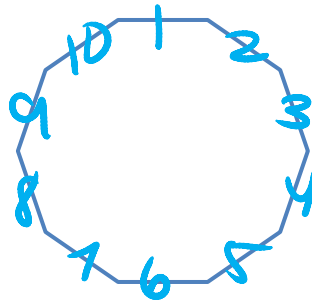
27. 120°

28-33 Classify (name) the polygon by the number of sides.

28.



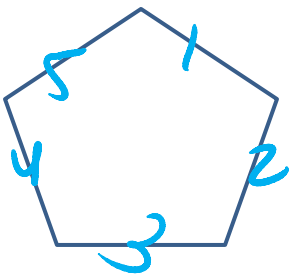
29.



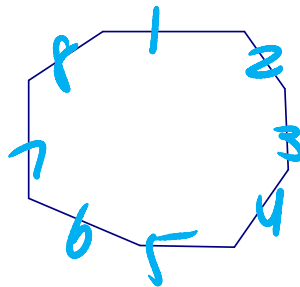
28. quadrilateral

29. decagon

30.



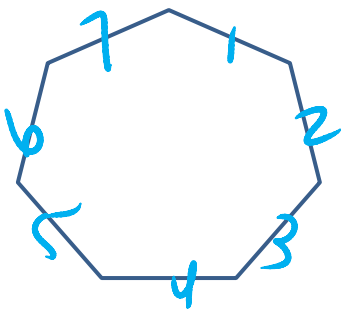
31.



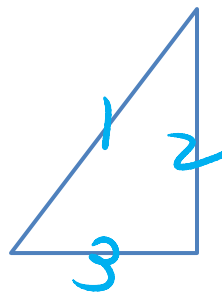
30. pentagon

31. octagon

32.



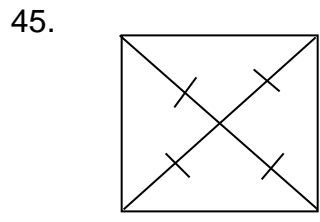
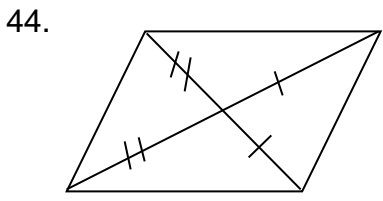
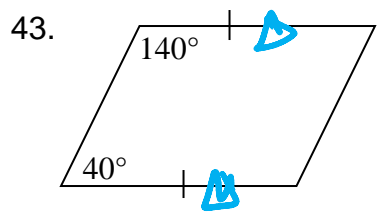
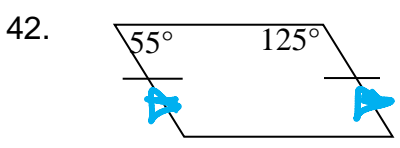
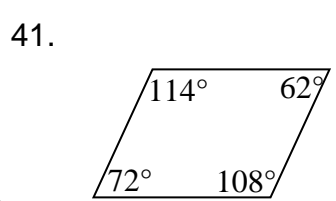
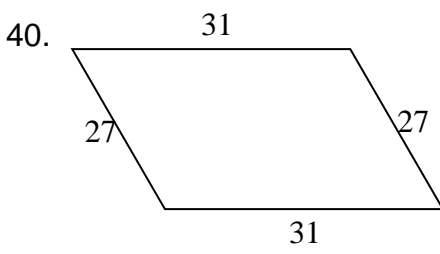
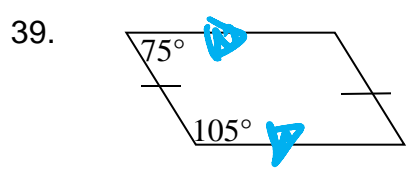
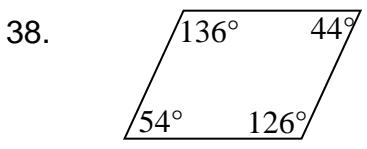
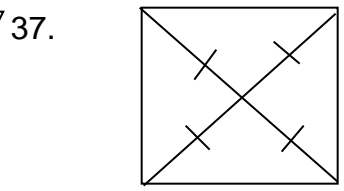
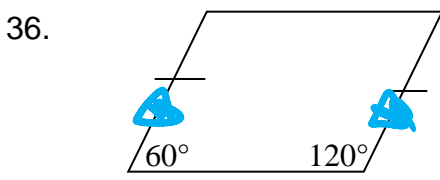
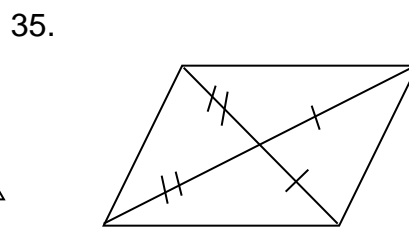
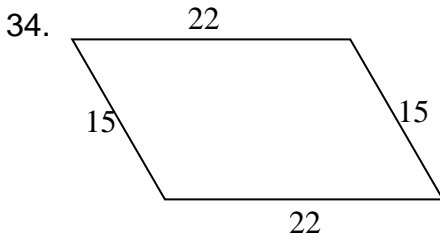
33.



32. heptagon

33. triangle

34-45 Determine if each quadrilateral is a parallelogram. Give a reason for your answer.



34. YES NO
Opp sides \cong

35. YES NO
Diags don't bisect

36. YES NO
Opp sides \cong + //

37. YES NO
Diags bisect

38. YES NO
Opp \angle 's aren't \cong

39. YES NO
Opp sides are not \cong + //

40. YES NO
Opp sides \cong

41. YES NO
Opp \angle 's not \cong

42. YES NO
Opp sides both // + \cong

43. YES NO
Opp sides both // + \cong

44. YES NO
Diags don't bisect

45. YES NO
Diags bisect

