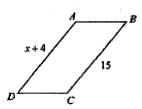
Solve for x. The figure below is a parallelogram:

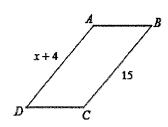
1.

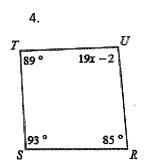


9x + 10

Solve for x. The figure below is a parallelogram:

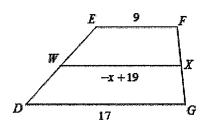
3.





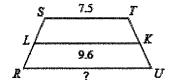
Solve for x. The figure below is a trapezoid:

5.

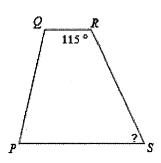


Find the length of the base indicated by the trapezoid

6.



7.



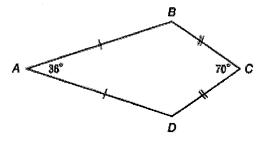
m∠S _____

m∠*Q* _____

m∠*P* _____

Find the indicated angle measures:

8.

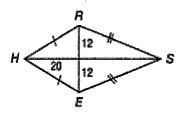


m∠*B* _____

m∠*D* _____

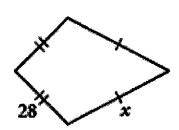
Find the indicated side lengths of the kite below:

9.

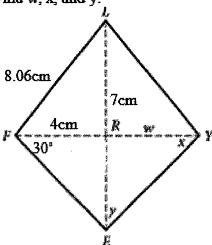


RH =

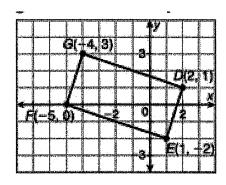
10. The perimeter of this kite is $\bf 116$. Find x.



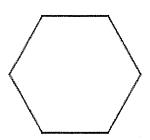
FLYE is a kite with FL = LY. Find w, x, and y.



12. Use distance and slope to verify whether parallelogram below is a rectangle, rhombus, or a square.



13. Find the measure of one interior angle in each polygon. Round your answer to the nearest tenth if necessary.



14. If the sum of the interior angles is 2340°, find the number of sides for the polygon.

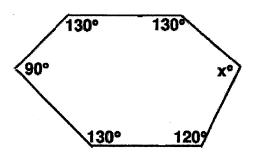
15. If each of the exterior angles is 30°, find the number of sides for the polygon

16. If each of the interior angles is 135°, find the number of sides for the polygon

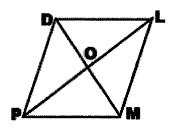
17. Find the other endpoint of the line segment with the given endpoint and midpoint.

Endpoint: (8, -8), midpoint: (5, 3)

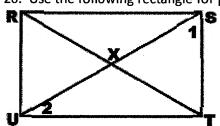
18. Solve for x:



19. In rhombus DLMP, DM = 24, $m \angle LDO = 43^{\circ}$, and DL = 13. Find each of the following.



20. Use the following rectangle for parts a and b



a) OM = ____

c) m∠DLO = _____

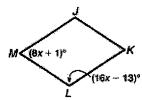
d) m∠DML = _____

e) DP =

a) $m \angle 1 = 54^\circ$, find $m \angle 2$.

b) If XT = 2y - 3 and US = 32, solve for y.

In $\square JKLM$, what is the value of $m \angle K$?



F 15°

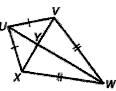
H 65°

G 57°

J 115°

22.

In kite UVWX, $m\angle XUV = 84^{\circ}$, and $m \angle WVX = 68^{\circ}$. What is $m \angle VWX$?



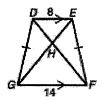
F 22°

G 42°

H 44° J 45°

23.

GE = 5x + 2 and DF = 8x - 7. What is GE?



A 16

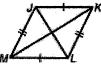
B 17

C 18

D 19

24.

What additional information would allow you to conclude that JKLM is a rhombus?



F $\overline{JK} || \overline{ML}$ and $\overline{JM} || \overline{KL}$.

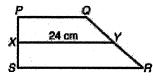
G JM≅JK

H \overline{JL} and \overline{MK} bisect each other.

J JL≅ MK

25.

In trapezoid PQRS, if YX is the midsegment, what could be the lengths of \overline{PQ} and \overline{SR} ?



F 4 cm and 8 cm

G 9 cm and 15 cm

H 17 cm and 31 cm

J 18 m and 30 m

26.

Which is the best name for the quadrilateral with vertices at (2, 2), (5, -2), (1, -5), and (-2, -1)?

A parallelogram C rhombus

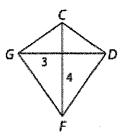
B rectangle

D square

If CDFG is a kite, find each measure.

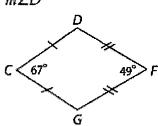
27.

GF



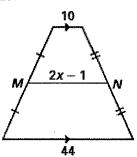
28.

 $m\angle D$

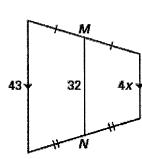


Find the value of x:

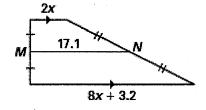
29.



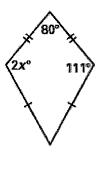
30.



31.



32.



WXYZ is a square. If WT = 3, find each measure.

33.

b) YZ = _____

d) XZ = _____

