Geometry

ID: 1

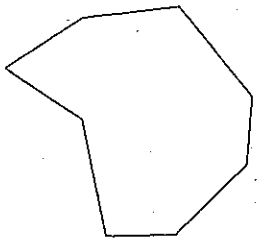
Name_____

Polygons Review

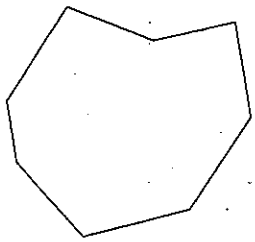
Date_____ Period____

Write the name of each polygon.

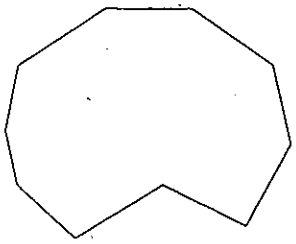
1)



2)



3)



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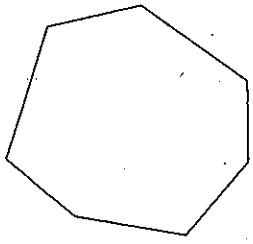

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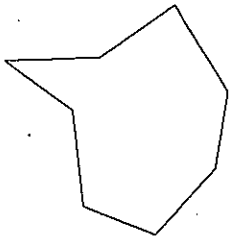
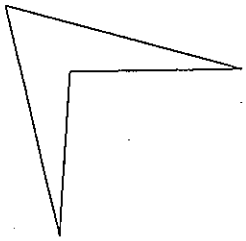


6)



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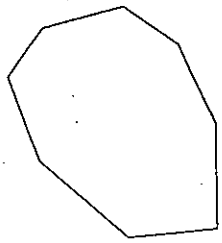

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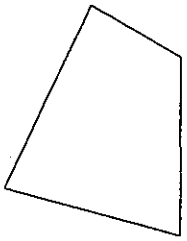
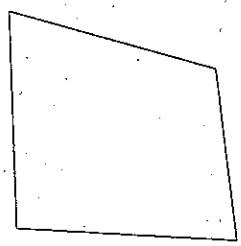


State if each polygon is concave or convex.

9)



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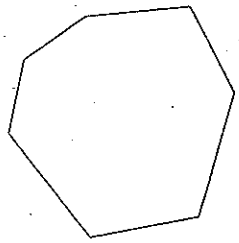

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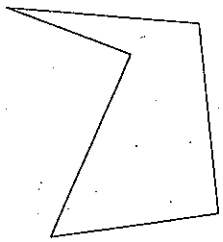

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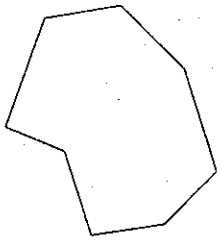

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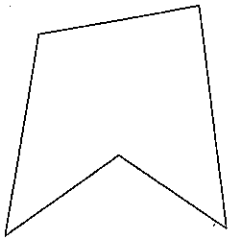

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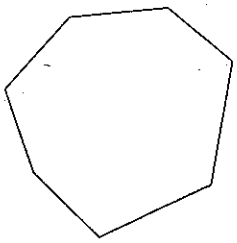
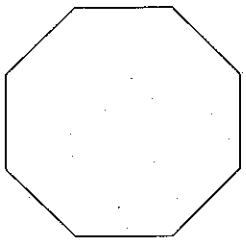


State if each polygon is regular or not.

15)



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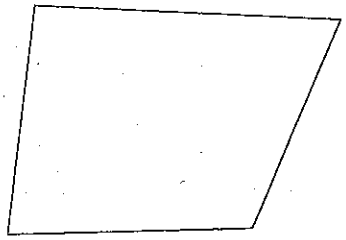

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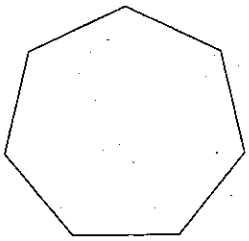

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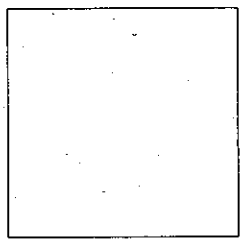
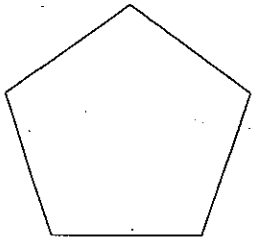


Find the interior angle sum for each REGULAR polygon. Round your answer to the nearest tenth if necessary.

19)



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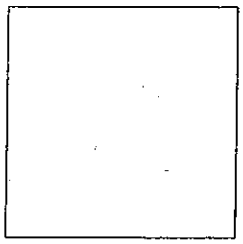

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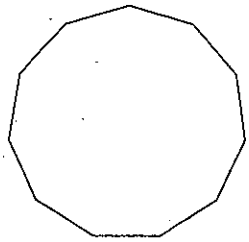

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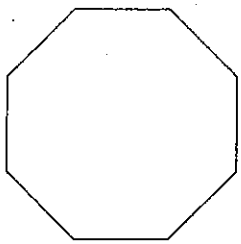
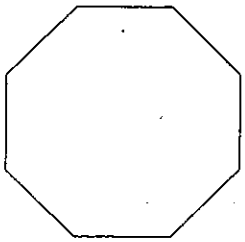


Find the measure of one interior angle in each REGULAR polygon. Round your answer to the nearest tenth if necessary.

23)



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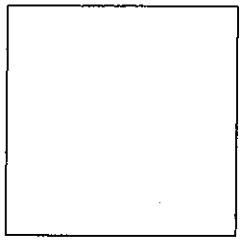

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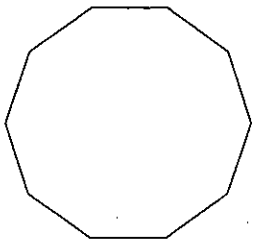

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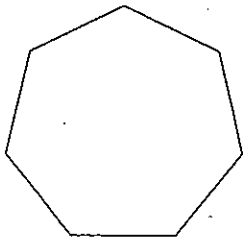
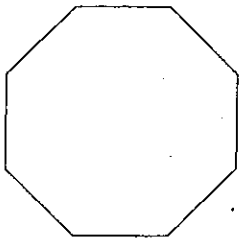


Find the measure of one exterior angle in each REGULAR polygon. Round your answer to the nearest tenth if necessary.

27)



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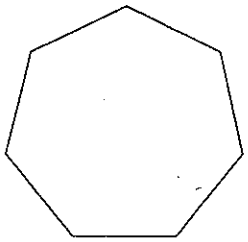
29)



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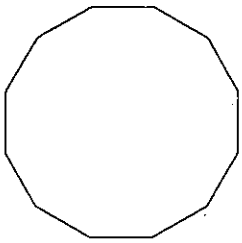
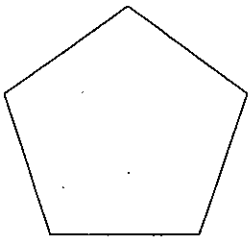


31)



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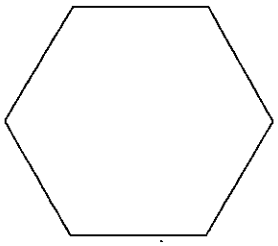
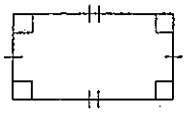


State the most specific name for each figure. Choose from irregular quadrilateral, parallelogram, rhombus, rectangle, square, trapezoid, isosceles trapezoid or kite.

33)



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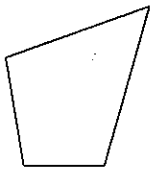
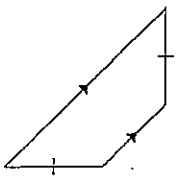
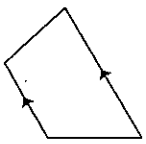


35)

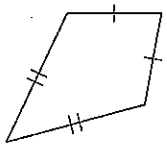


36)

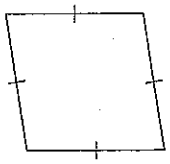


State the most specific name.

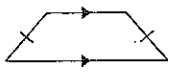
37)



38)



39)



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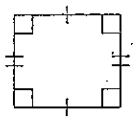

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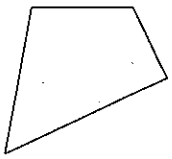
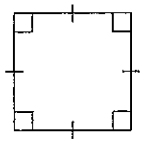
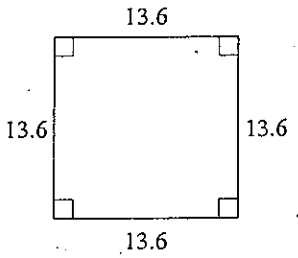


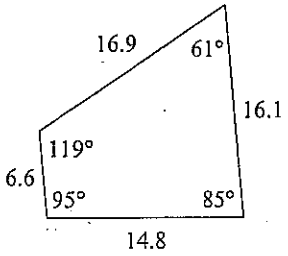
42)



43)



44)



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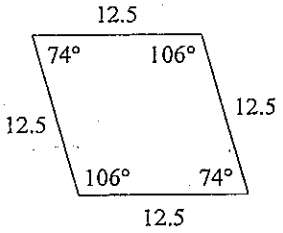

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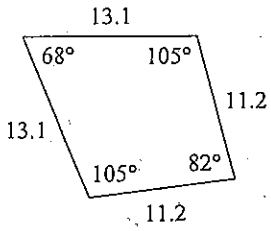
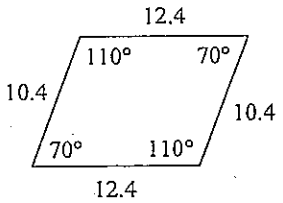
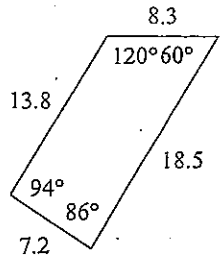


47)

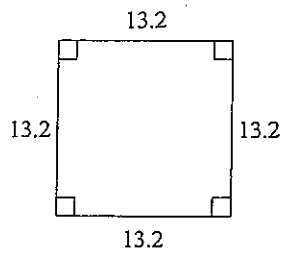


State the most specific name.

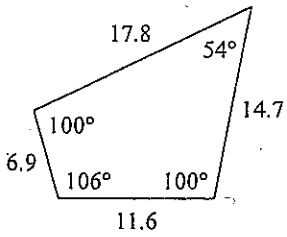
48)



49)

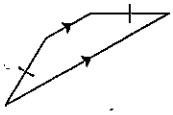


50)

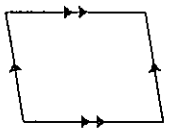


State ALL possible names for each figure. Choose from irregular quadrilateral, parallelogram, rhombus, rectangle, square, trapezoid, isosceles trapezoid, and kite.

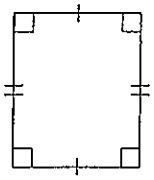
51)



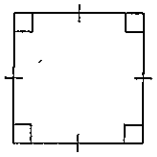
52)



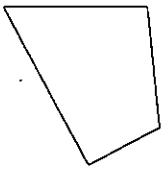
53)



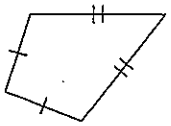
54)



55)

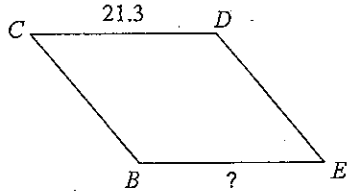


56)

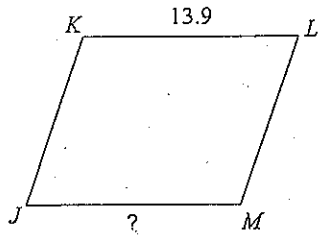


Find the measurement indicated in each parallelogram.

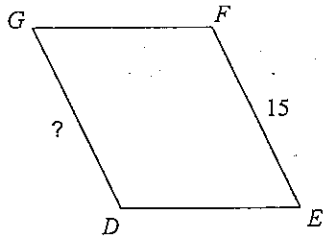
57)



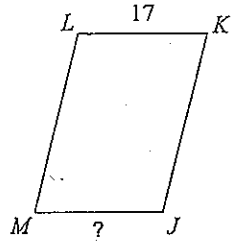
58)



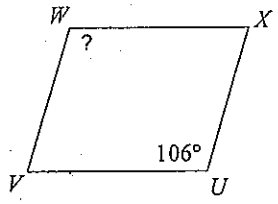
59)



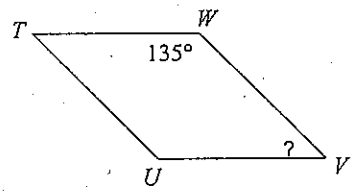
60)



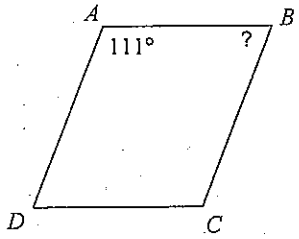
61)



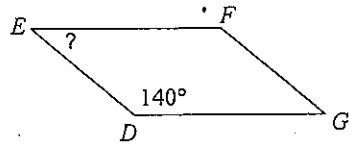
62)



63)

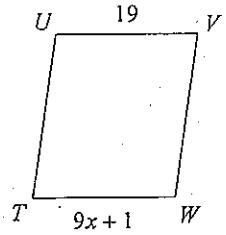


64)

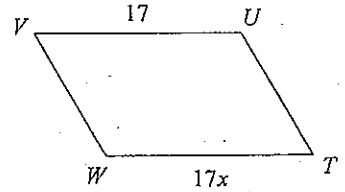


Write an equation and solve for x. Each figure is a parallelogram.

65)

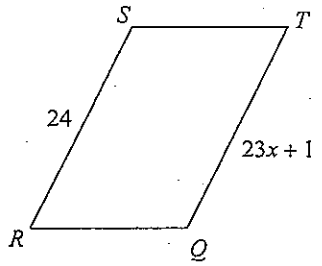


66)

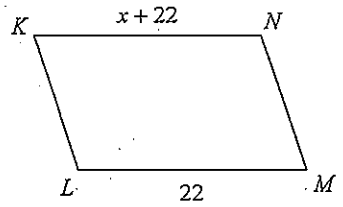


Solve for x.

67)

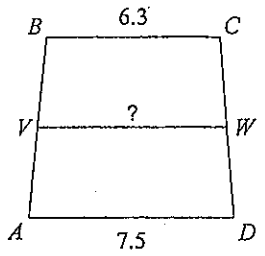


68)

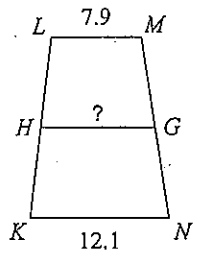


Find the length of the median of each trapezoid.

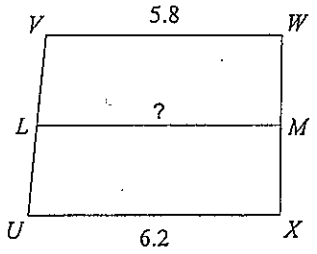
69)



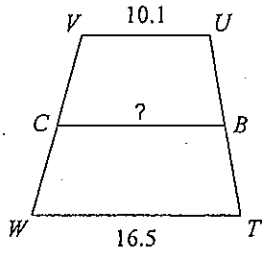
70)



71)

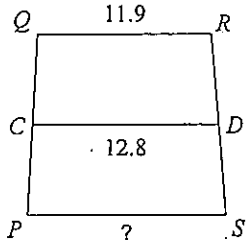


72)

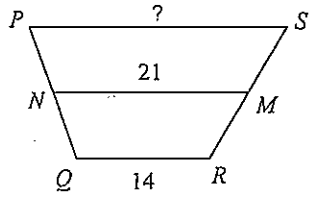


Find the lengh of the base indicated for each trapezoid. Show your work!

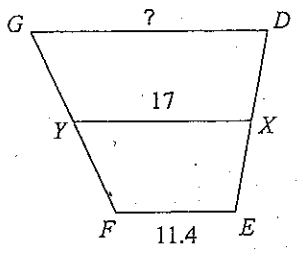
73)



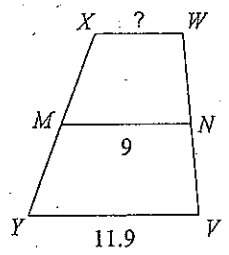
74)



75)

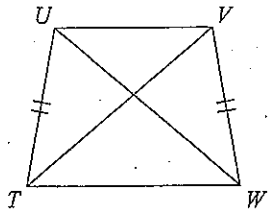


76)

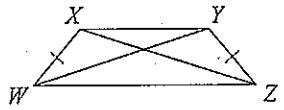


Find the length of the diagonal indicated for each trapezoid.

77) $UW = 24$
Find TV

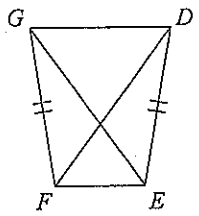


78) $WY = 11.7$
Find XZ

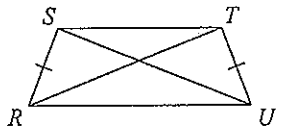


Write and equation and solve for x. Each figure is an ISOSCELES trapezoid.

79) $DF = 7$
$EG = 2x - 11$

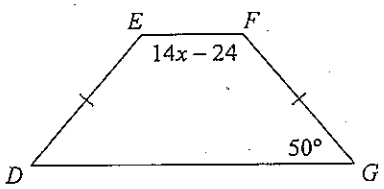


80) $SU = 11$
$RT = 5 + 2x$

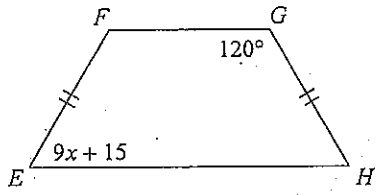


Write an equation and solve for x. Each figure is an ISOSCELES trapezoid.

81)

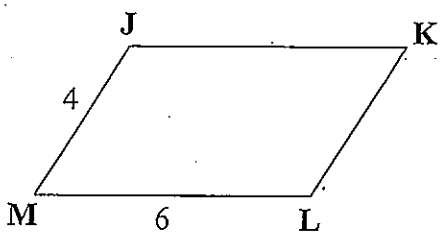


82)

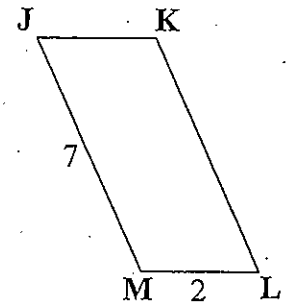


For #85-86, JKLM is a parallelogram. Find the perimeter of JKLM.

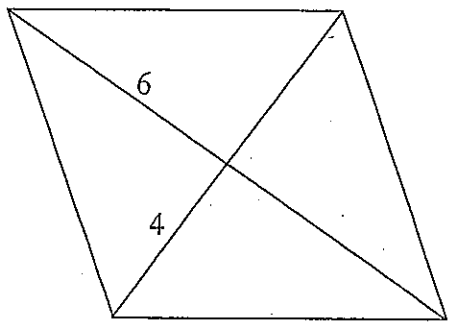
85.

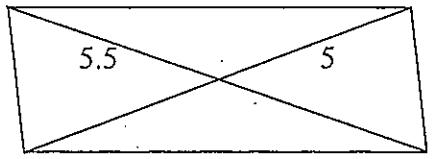


86.



87. Find the length of both diagonals of each parallelogram.

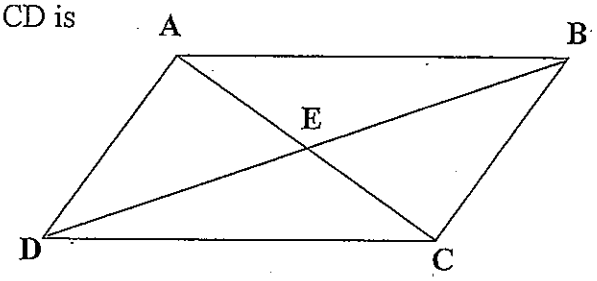




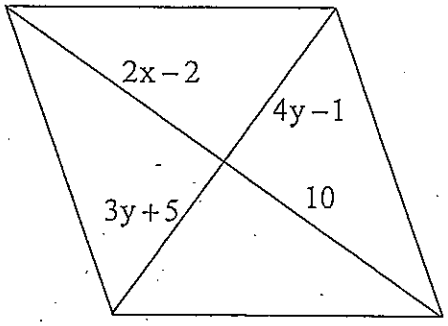
88. If the sum of both diagonals of parallelogram ABCD is 80 and AC = 30, find the following lengths …

AE = _____ BD = _____

BE = _____ DE = _____



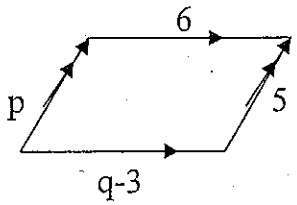
89. Solve for x and y in the parallelogram shown.



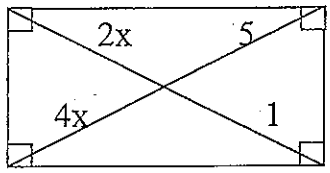
Practice Worksheet for Practicing Properties of Parallelograms and other Quadrilaterals

Find the value of each variable in the given quadrilateral

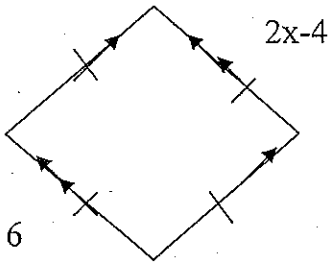
1.



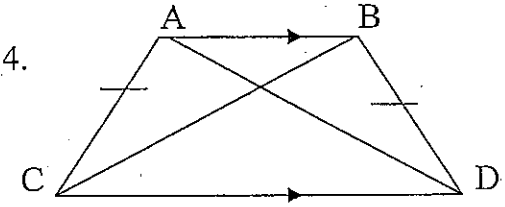
2.



3.

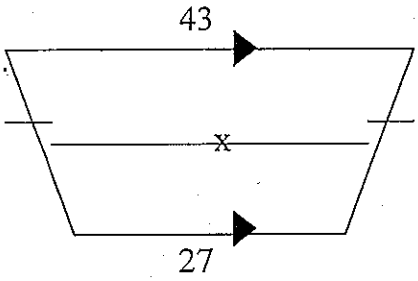


4.

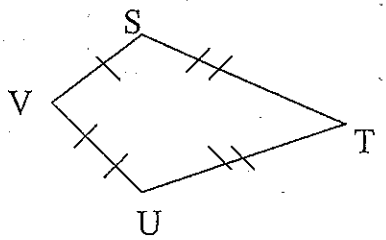


AD= 7r-7, BC= 2r+3

5.

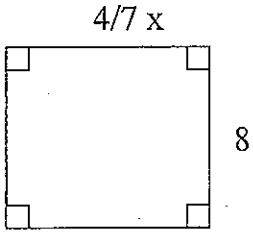


6.

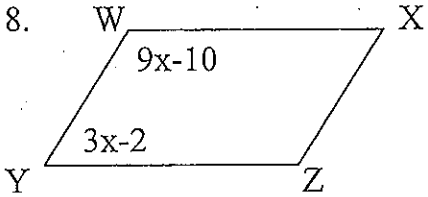


<VST = 3d-4; <VUT= 11

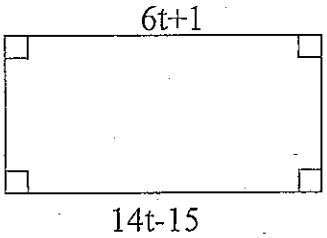
7.



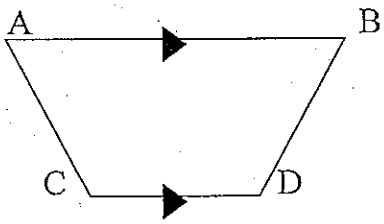
8.



9.



10.



<CAB= 4y-11 ; <DBA= 3y+1