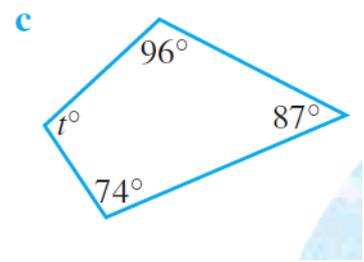
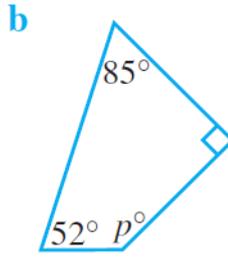
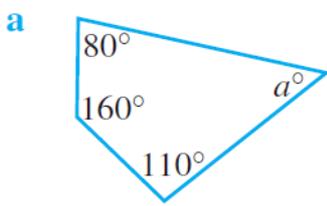
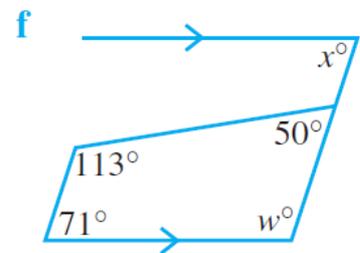
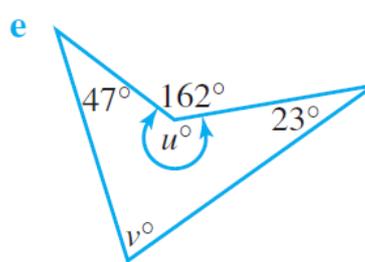
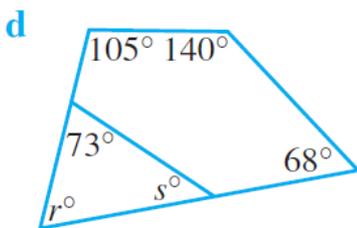
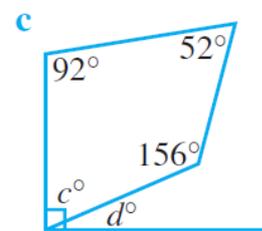
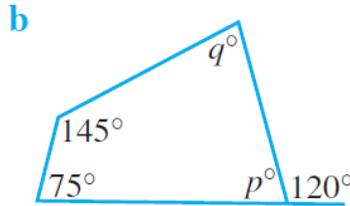
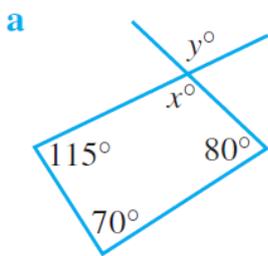


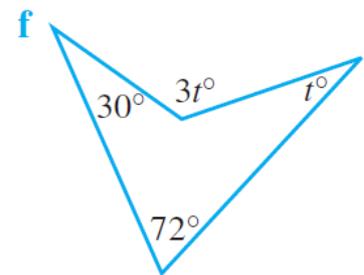
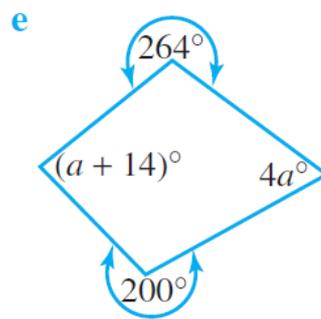
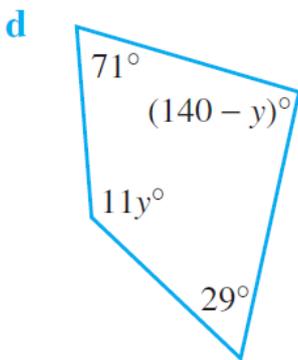
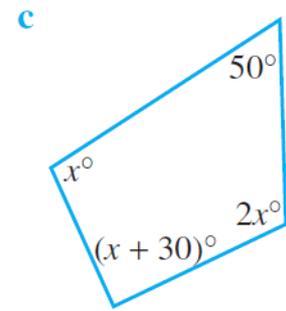
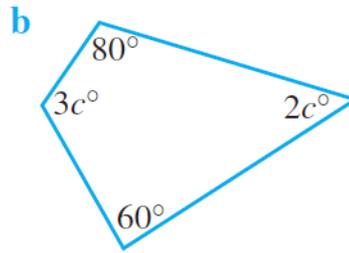
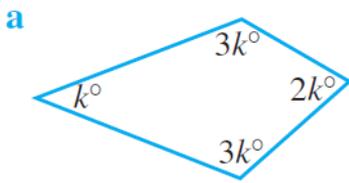
1 Find the value of the pronumeral in each of these, giving brief reasons.



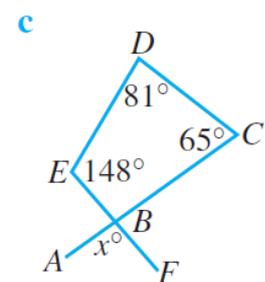
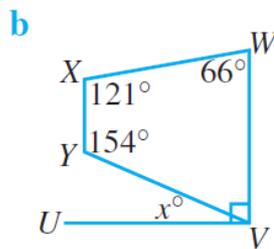
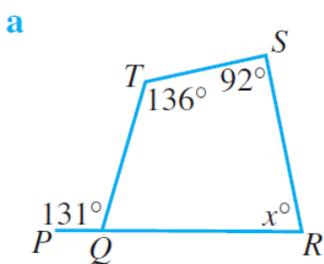
2 Find the values of all pronumerals in each of the following, giving brief reasons.



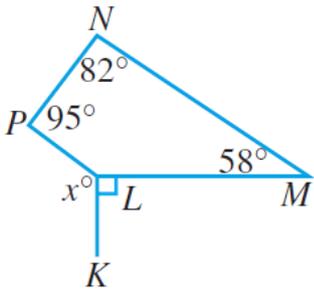
4 Form an equation and solve it to find the value of the pronumeral in each of these.



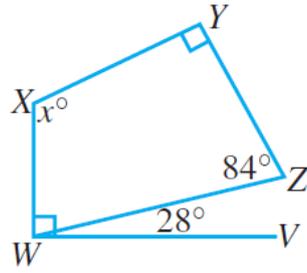
5 Find the value of  $x$ , giving reasons.



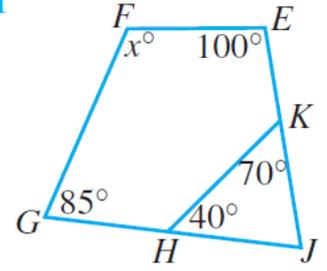
d



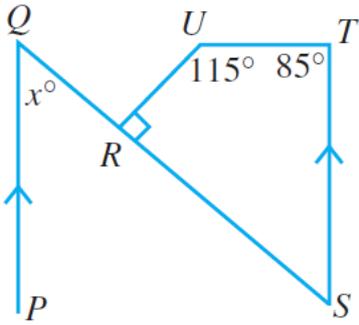
e



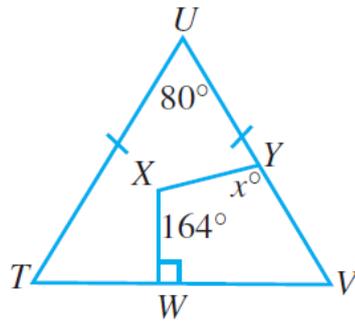
f



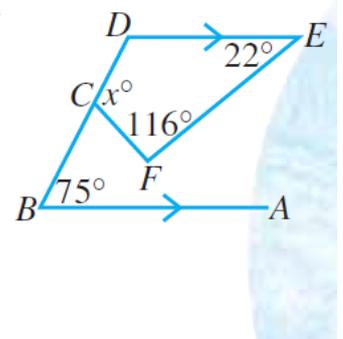
g

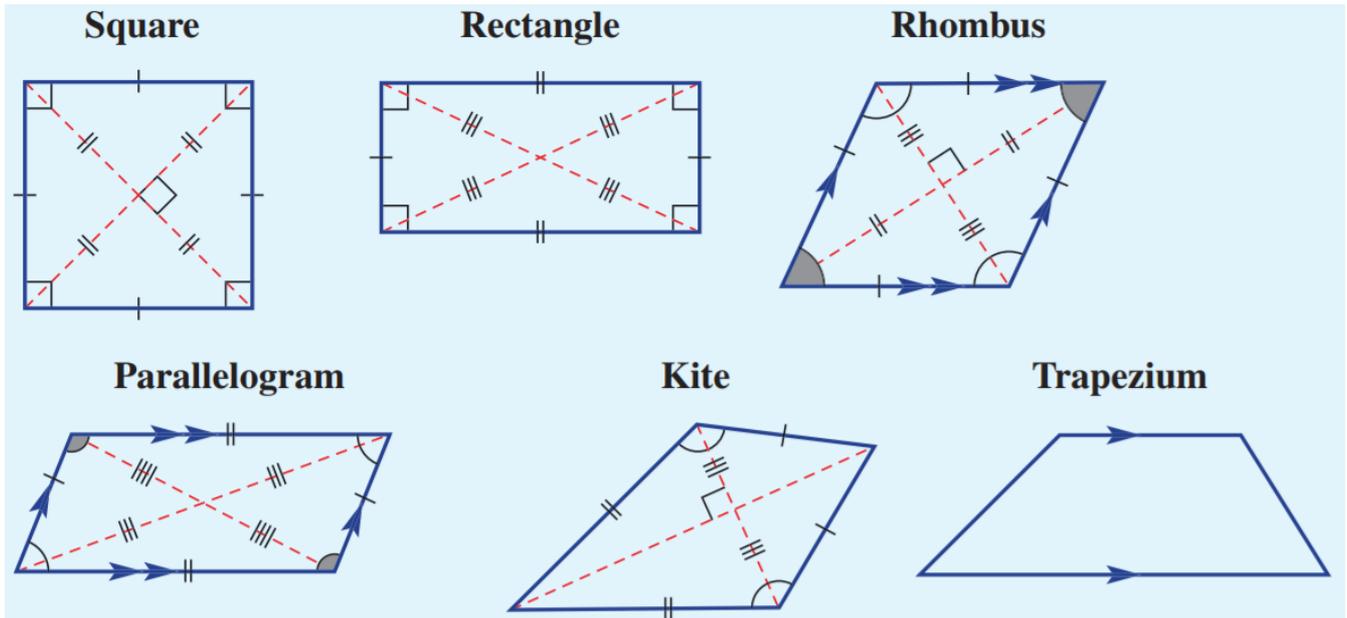


h



i





Use your shapes to write YES in the cells in the table, for the statements that are definitely true.

Property	trapezium	kite	parallelogram	rectangle	rhombus	square
The opposite sides are parallel						
All sides are equal						
The adjacent sides are perpendicular						
The opposite sides are equal						
The diagonals are equal						
The diagonals bisect each other						
The diagonals bisect each other at right angles						
The diagonals bisect the angles of the quadrilateral						

3 Write true (T) or false (F) for each of these.

a a square is a rectangle

c a rhombus is a parallelogram

e a trapezium is a parallelogram

g a rectangle is a parallelogram

i a parallelogram is a rhombus

b a rectangle is a square

d a square is a rhombus

f a parallelogram is a trapezium

h a rhombus is a square

j a rhombus is a trapezium

4 Classify each of the following quadrilaterals giving brief reasons. (Diagrams are not drawn to scale.)

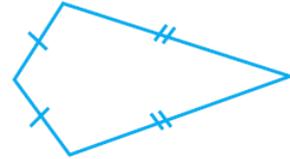
a



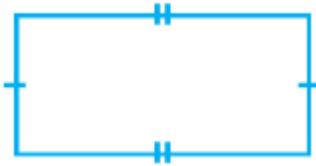
b



c



d



e



f



g

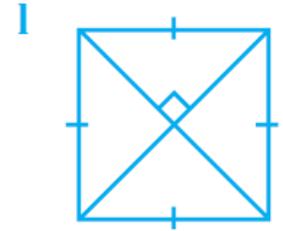
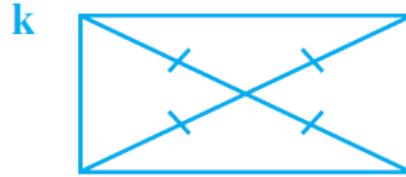
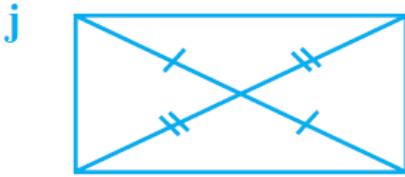


h

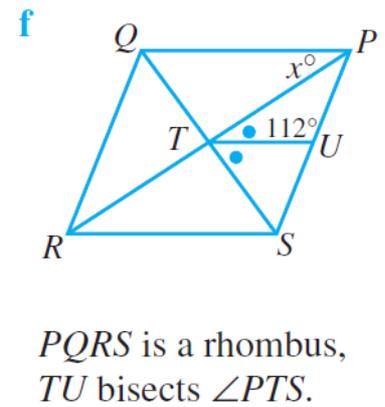
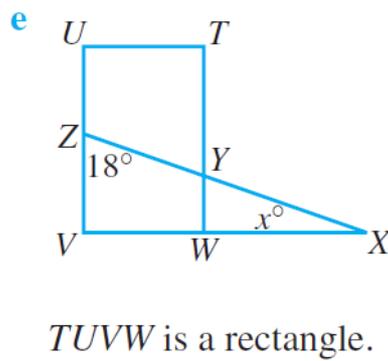
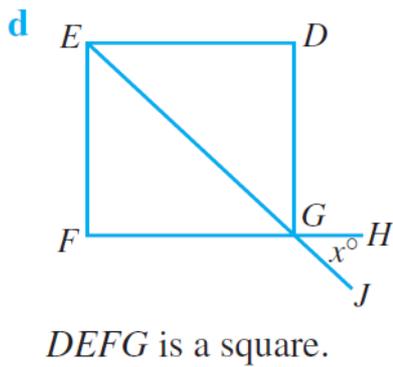
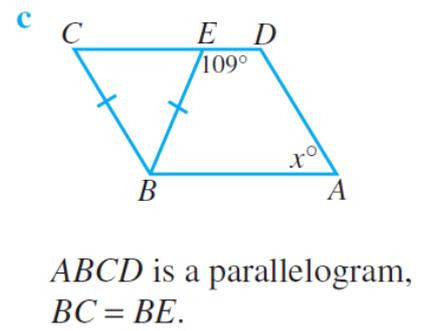
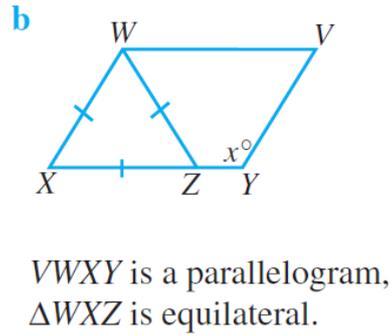
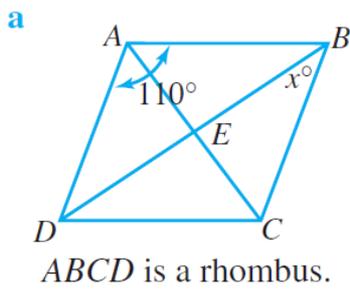


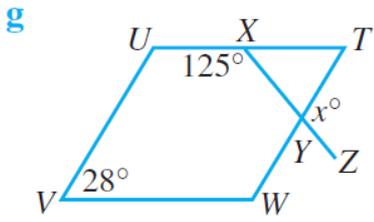
i



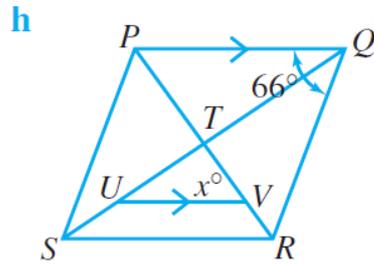


**10** Find the value of  $x$ , giving reasons.

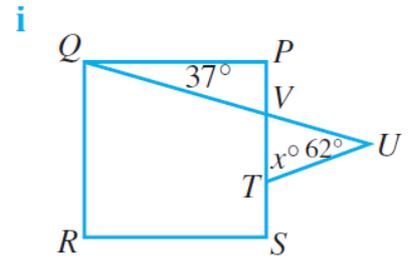




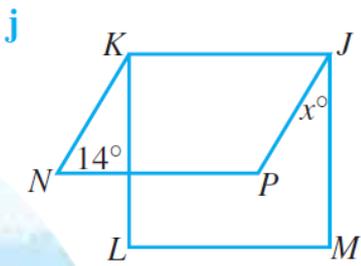
*TUVW* is a parallelogram.



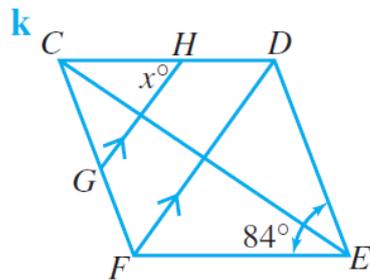
*PQRS* is a rhombus,  
 $UV \parallel PQ$ .



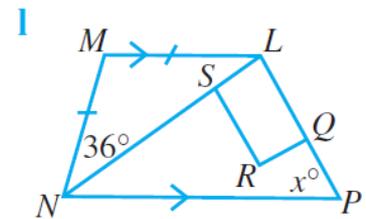
*PQRS* is a square.



*JKLM* is a square,  
*JKNP* is a parallelogram.



*CDEF* is a rhombus,  
 $GH \parallel FD$ .



*QRSL* is a rectangle,  
 $ML = MN, ML \parallel NP$ .