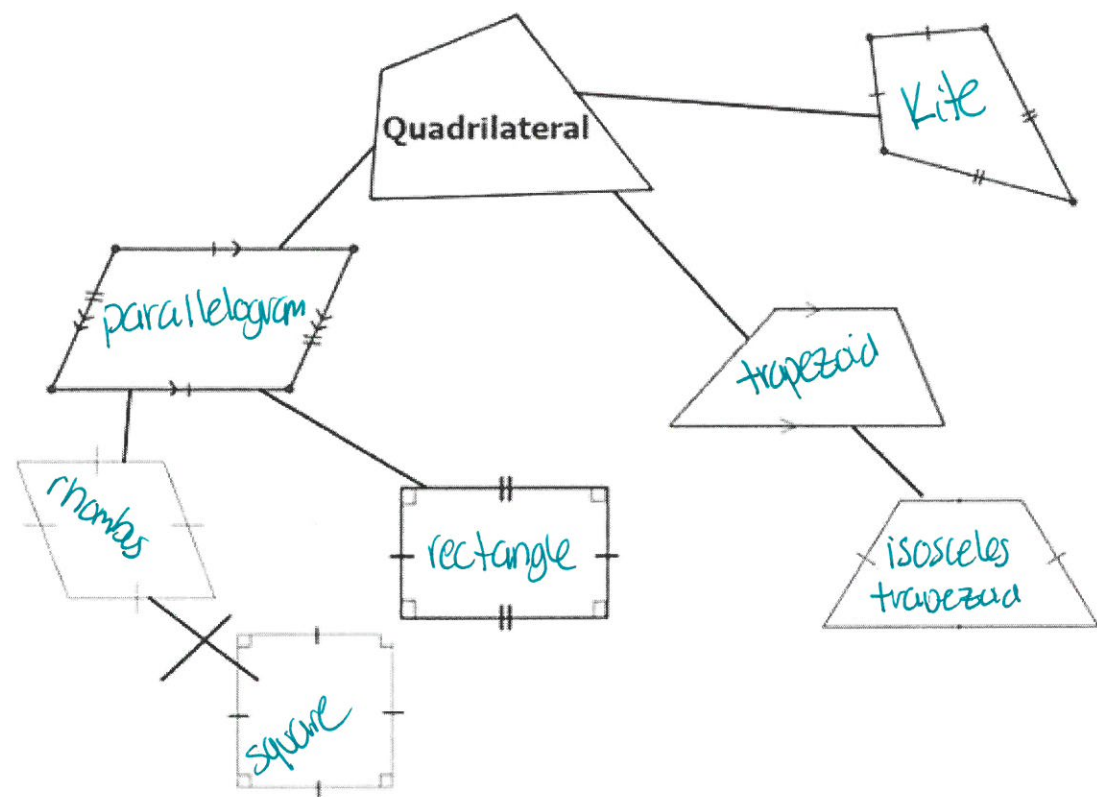


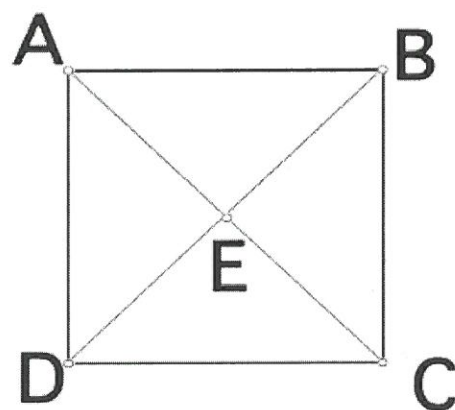
Quads Practice

Write the name of each special quadrilateral in the images below.



Find the missing measurements of Square ABCD.

$AB = 12$	$BC = 12$
$CD = 12$	$DA = 12$
$AC = 17$	$DB = 17$
$AE = 8.5$	$BE = 8.5$
$CE = 8.5$	$DE = 8.5$

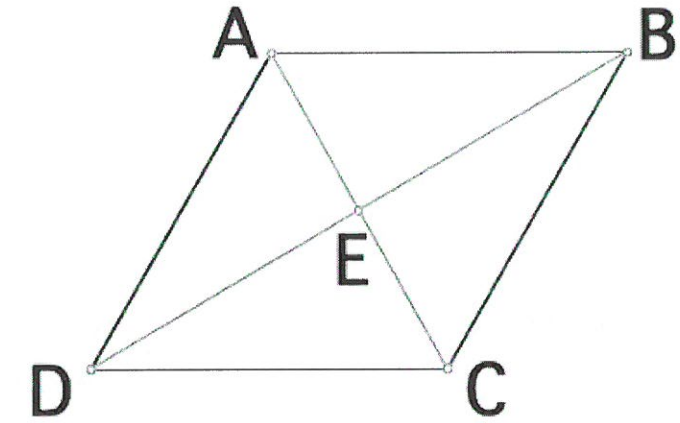


$m\angle ABE = 45^\circ$	$m\angle EBC = 45^\circ$	$m\angle BCE = 45^\circ$	$m\angle ECD = 45^\circ$
$m\angle CDE = 45^\circ$	$m\angle EDA = 45^\circ$	$m\angle DAE = 45^\circ$	$m\angle EAB = 45^\circ$
$m\angle AEB = 90^\circ$	$m\angle BEC = 90^\circ$	$m\angle CED = 90^\circ$	$m\angle DEA = 90^\circ$

SPECIAL QUADRILATERALS PRACTICE

Find the missing measurements of Rhombus ABCD.

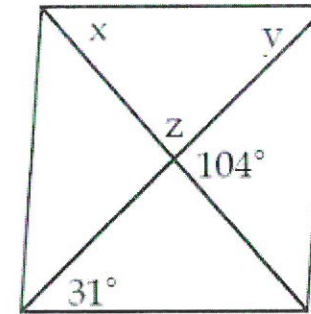
- AB = 9.48
- BC = 9.48
- CD = 9.48
- DA = 9.48
- AC = 9
- DB = 18
- AE = 4.5
- BE = 9
- CE = 4.5
- DE = 9



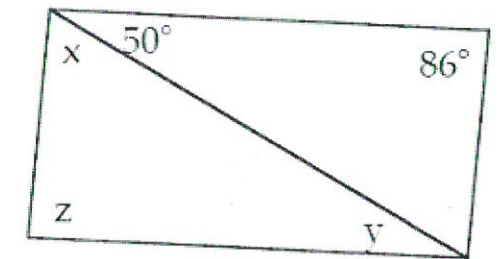
- $m\angle ABE = \underline{27^\circ}$ $m\angle EBC = \underline{27^\circ}$ $m\angle BCE = \underline{63^\circ}$ $m\angle ECD = \underline{63^\circ}$
- $m\angle CDE = \underline{27^\circ}$ $m\angle EDA = \underline{27^\circ}$ $m\angle DAE = \underline{63^\circ}$ $m\angle EAB = \underline{63^\circ}$
- $m\angle AEB = \underline{90^\circ}$ $m\angle BEC = \underline{90^\circ}$ $m\angle CED = \underline{90^\circ}$ $m\angle DEA = \underline{90^\circ}$

The following pictures look like rectangles. DO NOT ASSUME THIS. Use the angle measures as noted on each picture.

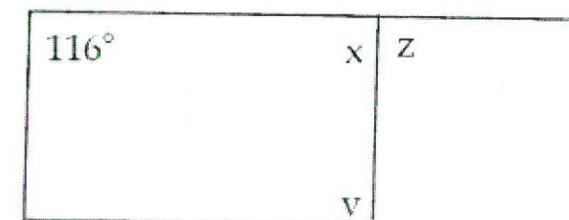
Find the values of x, y and z if each quadrilateral is a parallelogram.



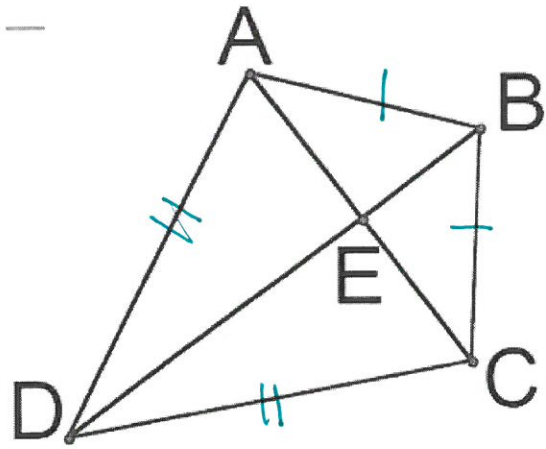
$$\begin{aligned} x &= \underline{73^\circ} \\ y &= \underline{31^\circ} \\ z &= \underline{76^\circ} \end{aligned}$$



$$\begin{aligned} x &= \underline{44^\circ} \\ y &= \underline{50^\circ} \\ z &= \underline{86^\circ} \end{aligned}$$



$$\begin{aligned} x &= \underline{64^\circ} \\ y &= \underline{116^\circ} \\ z &= \underline{116^\circ} \end{aligned}$$



What do you know about the sides of a kite?

adjacent sides are congruent

What do you know about the angles of a kite?

1 set of congruent ^{opposite} angles

What do you know about the diagonals of a kite?

- intersections form 90° degree angles
- the longer diagonal cuts the shorter diagonal in half

