

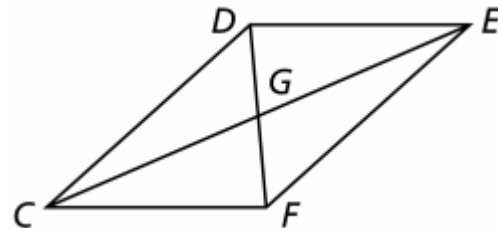
Polygons and Quadrilaterals Study Guide

1.) Parallelogram CDEF, $DE = 74\text{mm}$, $DG = 31\text{mm}$, and $m\angle FCD = 42^\circ$.

a.) $CF =$ _____

b.) $m\angle EFC =$ _____

c.) $DF =$ _____



2.) Parallelogram WXYZ

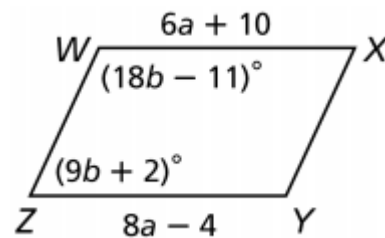
a.) $a =$ _____

d.) $m\angle Z =$ _____

b.) $b =$ _____

e.) $m\angle W =$ _____

c.) $YZ =$ _____



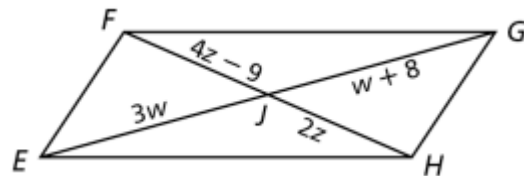
3.) Parallelogram EFGH

a.) $w =$ _____

d.) $EG =$ _____

b.) $z =$ _____

c.) $FH =$ _____



4.) TVWX is a rhombus.

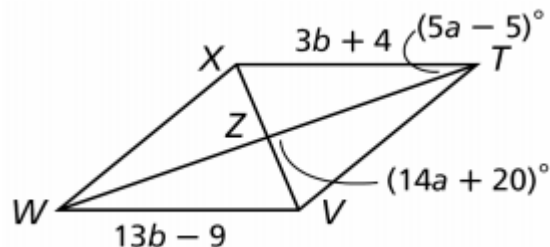
a.) $a =$ _____

d.) $m\angle WVT =$ _____

b.) $b =$ _____

e.) $m\angle XWV =$ _____

c.) $WV =$ _____

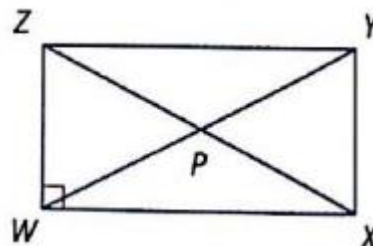


5.) Quadrilateral WXYZ is a rectangle.

a.) If $ZY = 2x + 3$ and $WX = x + 4$, find $WX =$ _____

b.) If $PY = 3x - 5$ and $WP = 2x + 11$, find $WY =$ _____

c.) If $m\angle ZYW = 2x - 7$ and $m\angle WYX = 2x + 5$, find $m\angle ZYW =$ _____



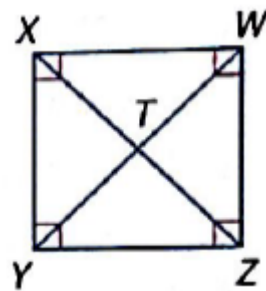
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6.) WXYZ is a square. If $WT = 3$, find each measure.

a.) $ZX =$ _____ d.) $m\angle WYZ =$ _____

b.) $XY =$ _____

c.) $m\angle WTZ =$ _____

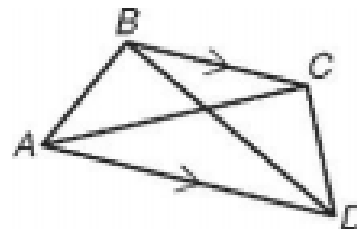


7.) Isosceles Trapezoid ABCD has $AC = (2z + 9)$ and $BD = (4z - 3)$.

a.) $z =$ _____

b.) $AC =$ _____

c.) $BD =$ _____

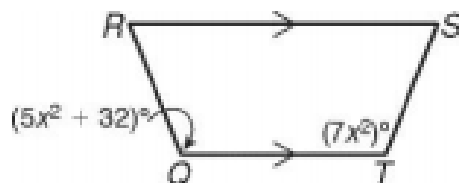


8.) Isosceles trapezoid QRST.

a.) $x =$ _____

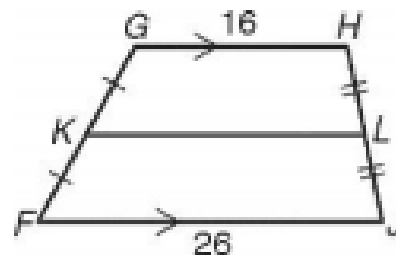
b.) $m\angle RQT =$ _____

c.) $m\angle ORS =$ _____



9.) Given Trapezoid FGHI,

a.) $KL =$ _____

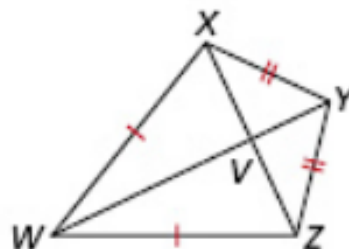


10.) In kite WXYZ, $m\angle WXY = 104^\circ$, and $m\angle VYZ = 49^\circ$. Find each measure.

a.) $m\angle VZY =$ _____

b.) $m\angle VXW =$ _____

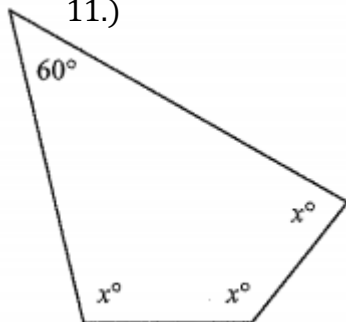
c.) $m\angle XWZ =$ _____



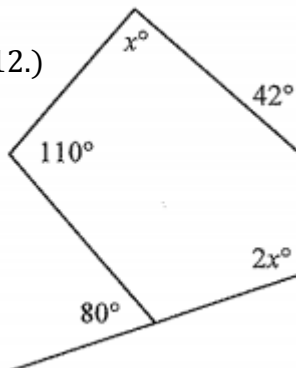
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Find the value of x .

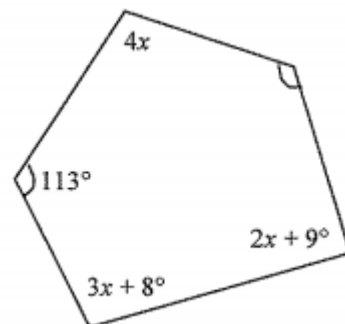
11.)



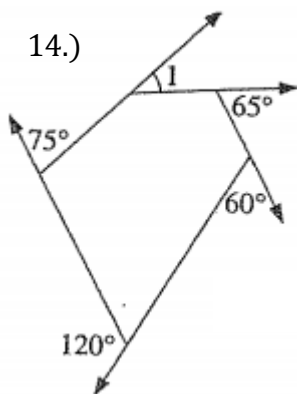
12.)



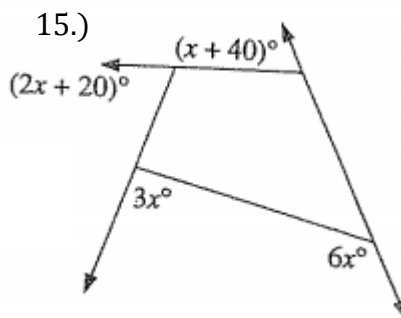
13.)



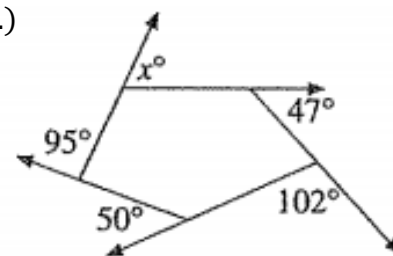
14.)



15.)



16.)



17.) Jason Roberts, Dylan Armendariz, and Esmael Reyes have to design and build a small model gazebo for their carpentry class at Palm Springs high School. Jason wants the floor of the gazebo to be a regular convex hexagon, Dylan wants the floor to be a regular convex Octagon, and Esmael wants the floor to be a regular convex pentagon. In order to make the gazebo work with the given materials they have to build it, each interior angles of the floor must be 135 degrees. Which floor plan must be used, Jason's, Dylan's, or Esmael's?