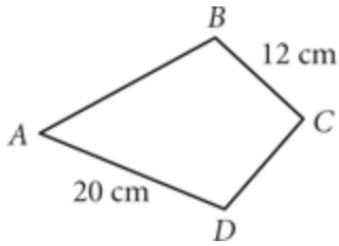


Geometry Assignment: Special Parallelograms (due 10/27)

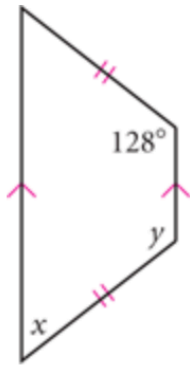
1. $ABCD$ is a kite.
perimeter = ?



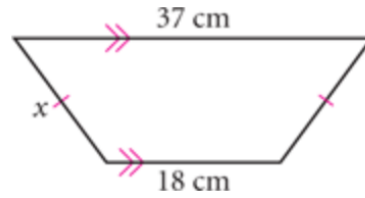
2. $x = \frac{?}{?}$
 $y = \frac{?}{?}$



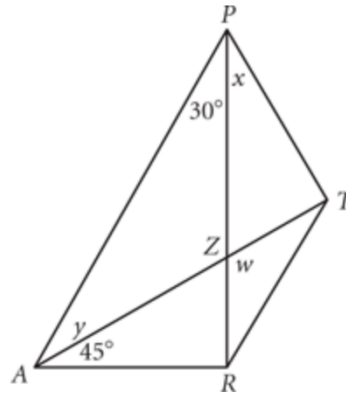
3. $x = \frac{?}{?}$
 $y = \frac{?}{?}$



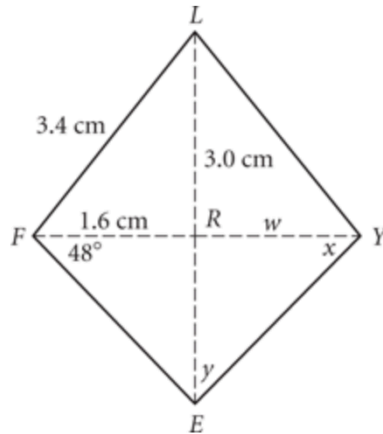
4. $x = \frac{?}{?}$
perimeter = 85 cm



7. $ARTP$ is an isosceles trapezoid with $RA = PT$. Find w , x , and y .



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

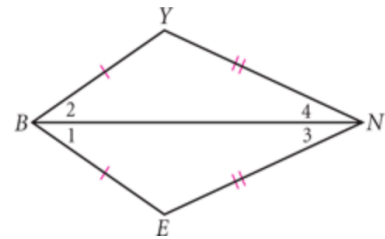
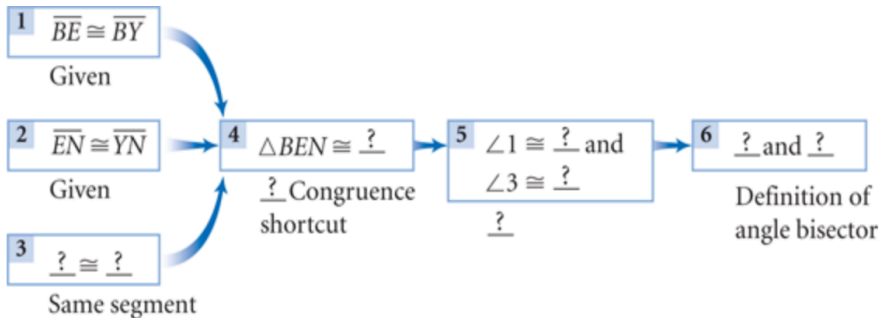


9. **DEVELOPING PROOF** Copy and complete the flowchart to show how the Kite Angle Bisector Conjecture follows logically from one of the triangle congruence conjectures.

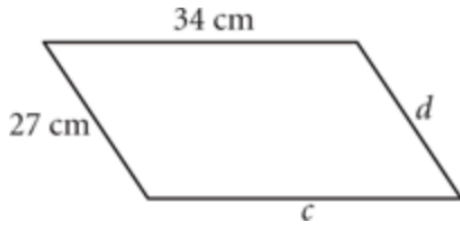
Given: Kite $BENY$ with $\overline{BE} \cong \overline{BY}$, $\overline{EN} \cong \overline{YN}$

Show: \overline{BN} bisects $\angle B$

Flowchart Proof



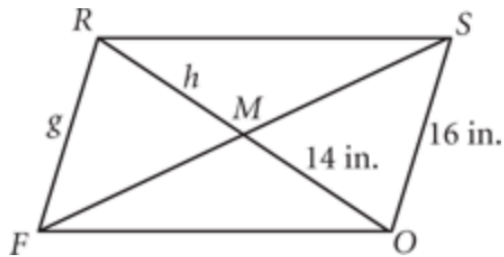
1. $c = \underline{\quad ? \quad}$
 $d = \underline{\quad ? \quad}$



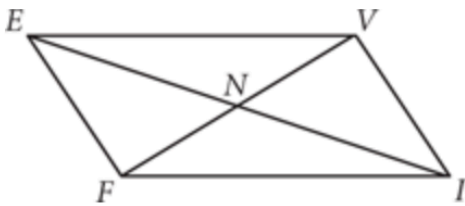
2. $a = \underline{\quad ? \quad}$
 $b = \underline{\quad ? \quad}$



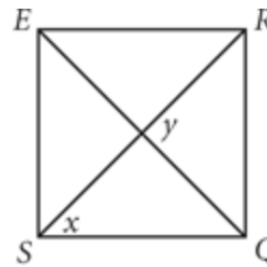
3. $g = \underline{\quad ? \quad}$
 $h = \underline{\quad ? \quad}$



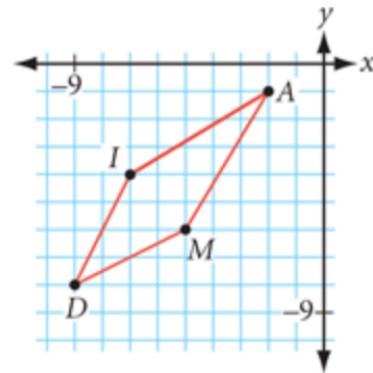
4. $VF = 36$ m
 $EF = 24$ m
 $EI = 42$ m
 What is the perimeter of $\triangle NVI$? (h)



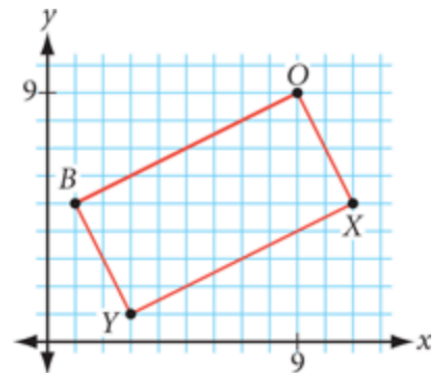
13. SQRE is a square.
 $x = \underline{\quad ? \quad}$
 $y = \underline{\quad ? \quad}$



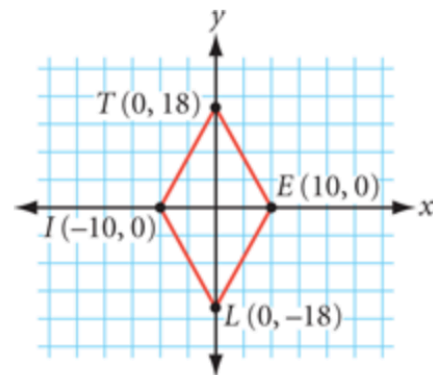
14. Is DIAM a rhombus? Why?



15. Is BOXY a rectangle? Why?



16. Is TILE a parallelogram? Why?



11. DEVELOPING PROOF Copy and complete the flowchart to show how the Parallelogram Diagonals Conjecture follows logically

Given: $LEAN$ is a parallelogram

Show: \overline{EN} and \overline{LA} bisect each other

Flowchart Proof

