POLYGONS

Name: _____ **Date:** _____

True or False?

1. A pentagon is a 6 sided figure: _____
2. All sides of a kite are congruent: _____
3. The sum is the interior angles of a triangle add up to 180 degrees: _____
4. The diagonals of a parallelogram are equal: _____
5. The sum of the interior angles of a decagon is 1440: _____

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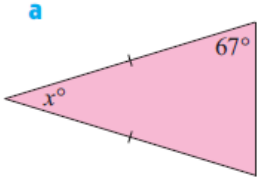
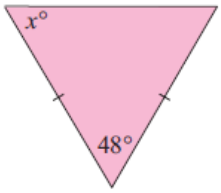
1 Find the unknowns in the following which have *not been drawn to scale*:

a



b



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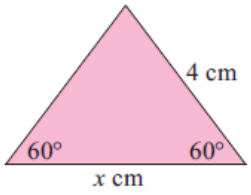
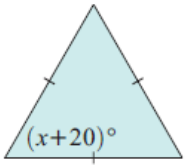


d



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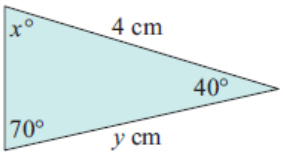

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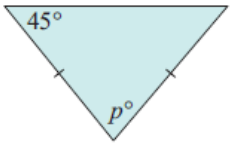

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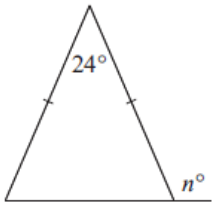
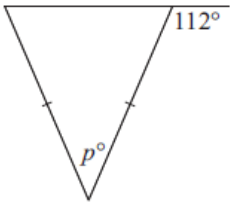
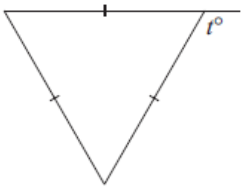


h



i



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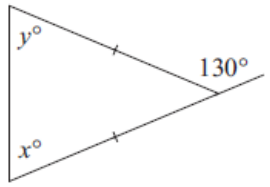

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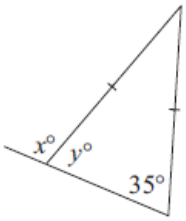

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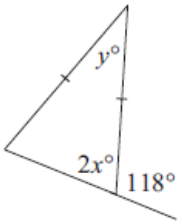
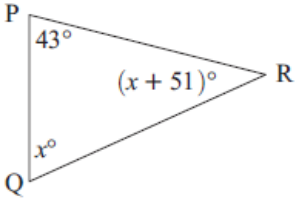


2 What can be deduced from these figures which have not been drawn to scale?

a



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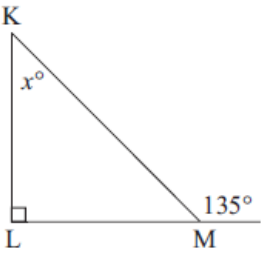

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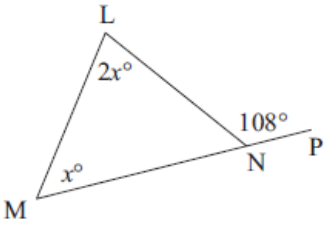
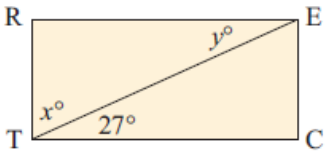


SECTION 2: Before starting this section, read through the notes on quadrilaterals.

1 Solve the following problems:

a RECT is a rectangle. Find the values of x and y.



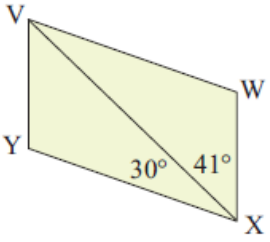
b PARM is a parallelogram. Find the size of:

i $P\hat{M}R$ **ii** $A\hat{R}M$ **iii** $P\hat{A}R$

c VWXY is a parallelogram. Find the size of:

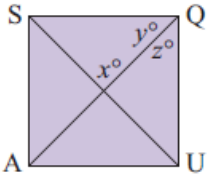
i $W\hat{V}X$ **ii** $Y\hat{V}X$

iii $V\hat{Y}X$ **iv** $V\hat{W}X$



d SQUA is a square. Find the values of:

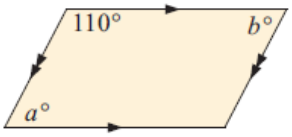
i x **ii** y **iii** z



2.

Use the information given to name the quadrilateral and find the values of the variables:

a



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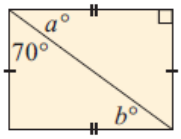

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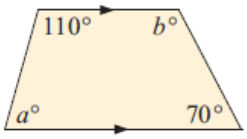

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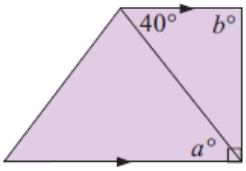

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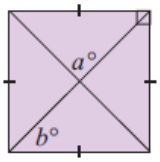

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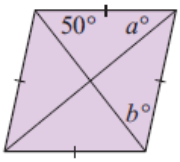
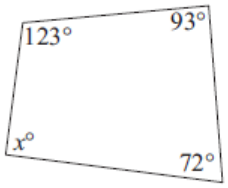


3.

Find the values of the variables, giving brief reasons for your answers:

a



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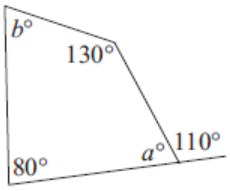

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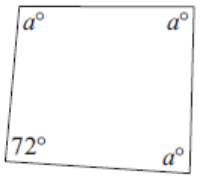

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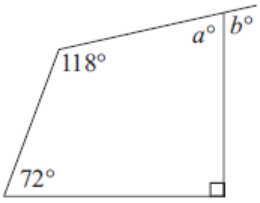

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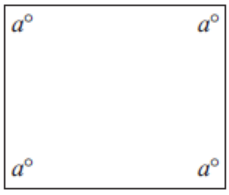

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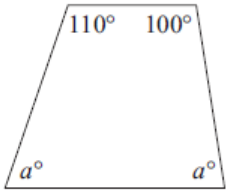

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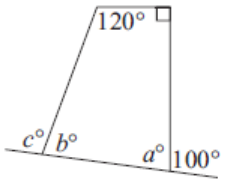

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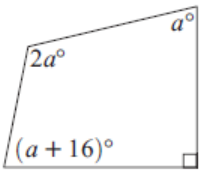
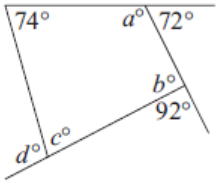


i



END OF REVIEW