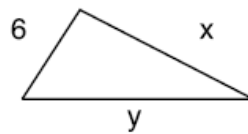
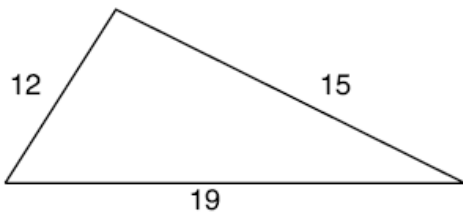


Part A

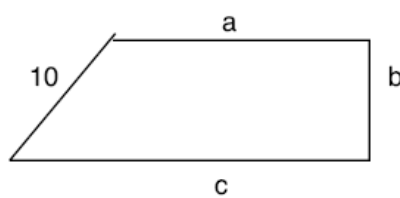
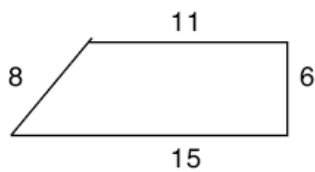
In each of the pairs of figures below, assume the figures are similar and that they are facing the same way; that is, assume that the left side of one corresponds to the left side of the other, etc. In each case, do the following:

- Set up equations to find the lengths of the sides labeled by variables, and
- Find answers to the equations.

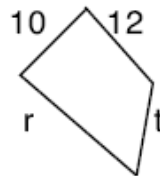
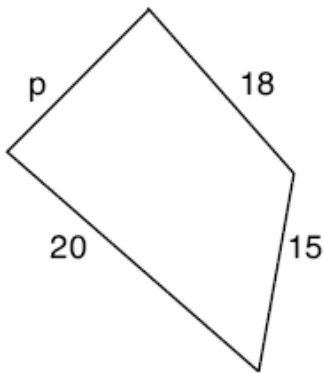
1.



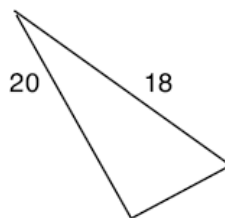
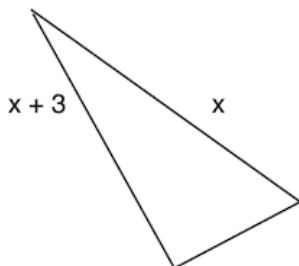
2.



3.



4.



PART B

All measurements are in centimeters.

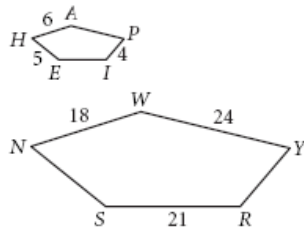
1. $HAPIE \sim NWYRS$

$AP = \underline{\hspace{2cm}}$

$EI = \underline{\hspace{2cm}}$

$SN = \underline{\hspace{2cm}}$

$YR = \underline{\hspace{2cm}}$



2. $QUAD \sim SIML$

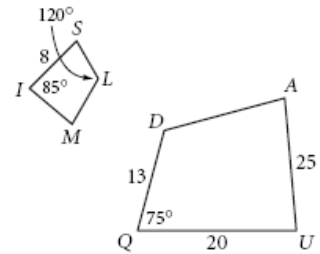
$SL = \underline{\hspace{2cm}}$

$MI = \underline{\hspace{2cm}}$

$m\angle D = \underline{\hspace{2cm}}$

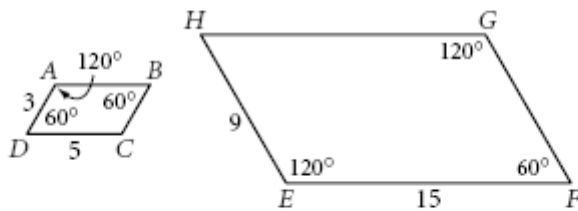
$m\angle U = \underline{\hspace{2cm}}$

$m\angle A = \underline{\hspace{2cm}}$

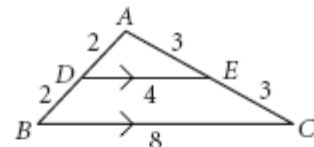


In Exercises 3–6, decide whether or not the figures are similar. Explain why or why not.

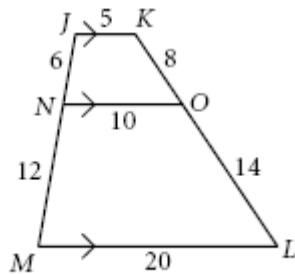
3. $ABCD$ and $EFGH$



4. $\triangle ABC$ and $\triangle ADE$



5. $JKON$ and $JKLM$



6. $ABCD$ and $AEFG$

