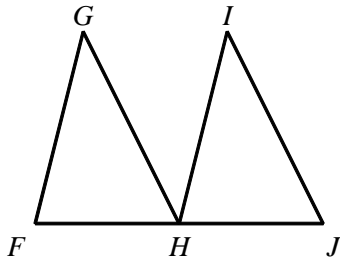
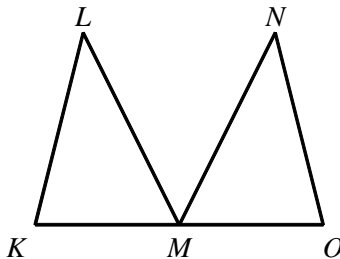


P.I. G.G.29: Identify corresponding parts of congruent triangles

1. $\triangle FGH \cong \triangle HIJ$. List all the corresponding equal parts.



2. $\triangle KLM \cong \triangle ONM$. List all the corresponding equal parts.



3. If $\triangle ABC \cong \triangle DEF$, $AB = 18$ cm, $\angle ABC = 47^\circ$, and $\angle DFE = 13^\circ$, which of the following statements is false?

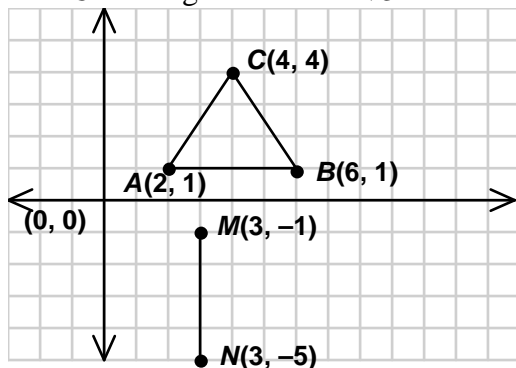
[A] $\angle B \cong \angle D$

[B] $\angle CAB = 120^\circ$

[C] $\overline{AC} \cong \overline{DF}$

[D] $ED = 18$ cm

4. $\triangle ABC$ is congruent to $\triangle MNO$. Find the coordinates of point O .



5. Use a protractor and ruler to determine if figure 1 is congruent to figure 2. If so, write a congruence statement.

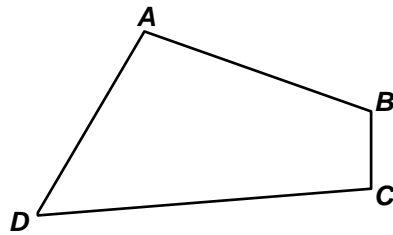


Figure 1

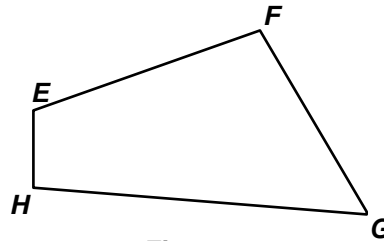
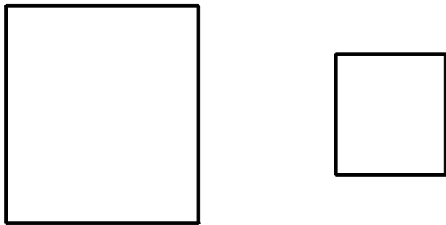
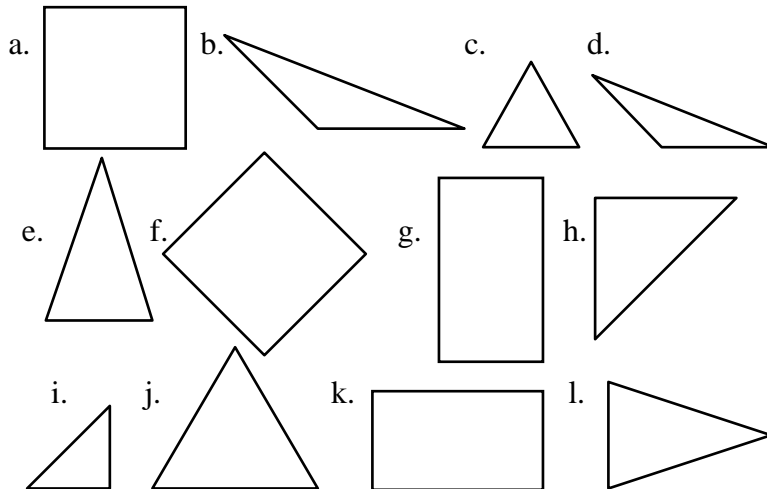


Figure 2

6. Tell whether the polygons are congruent, similar, or neither.



7. Which statement is FALSE?



- [A] g and k are similar [B] c and j are similar [C] a and f are similar [D] b and d are congruent

$$\angle F = \angle IHJ, \angle G = \angle I, \angle FHG = \angle J$$

[1] $FG = HI, FH = HJ, GH = IJ$

$$\angle K = \angle O, \angle L = \angle N, \angle KML = \angle OMN$$

[2] $KL = ON, KM = OM, LM = NM$

[3] A

[4] $(6, -3)$ or $(0, -3)$

[5] yes, $ABCD \cong FEHG$

[6] similar

[7] D