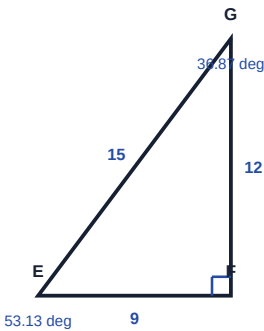
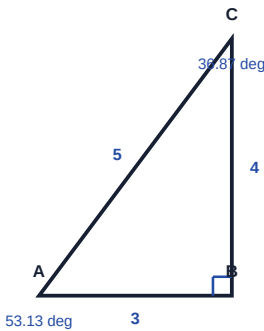


Similar Polygons

Use the printed correspondence to decide similarity or find the smaller-to-larger scale factor. Check corresponding angles and side ratios.

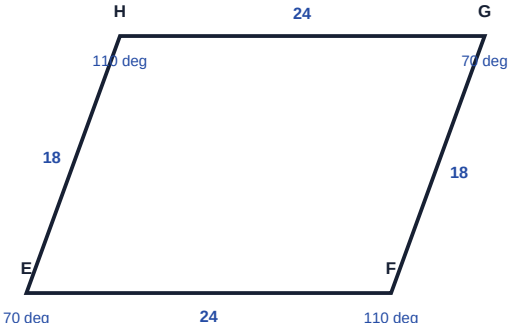
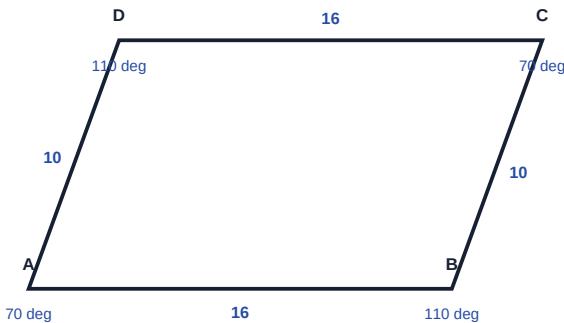
1. Are these polygons similar? Justify using the printed correspondence.



Correspondence: A<->E, B<->F, C<->G

Similar? _____

2. Are these polygons similar? Justify using the printed correspondence.



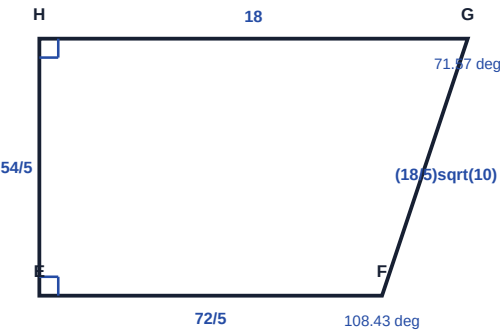
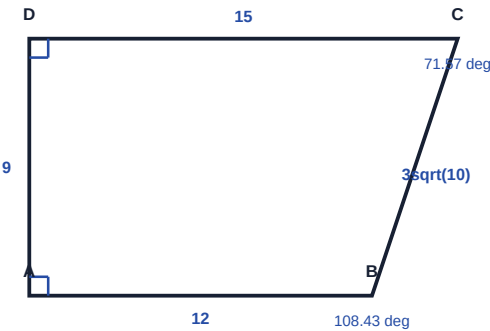
Correspondence: A<->E, B<->F, C<->G, D<->H

Similar? _____

Similar Polygons

Use the printed correspondence to decide similarity or find the smaller-to-larger scale factor. Check corresponding angles and side ratios.

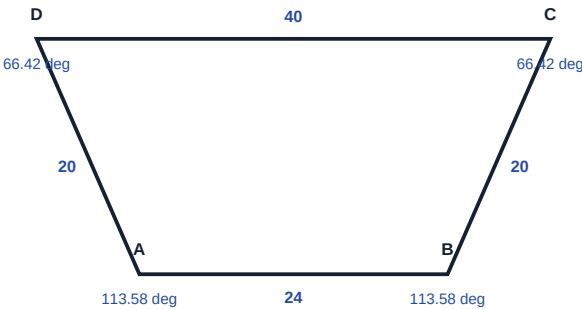
3. Are these polygons similar? Justify using the printed correspondence.



Correspondence: A<->E, B<->F, C<->G, D<->H

Similar? _____

4. Are these polygons similar? Justify using the printed correspondence.



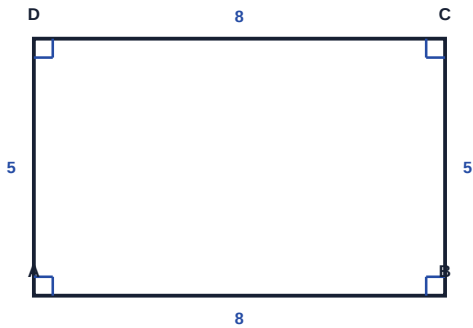
Correspondence: A<->E, B<->F, C<->G, D<->H

Similar? _____

Similar Polygons

Use the printed correspondence to decide similarity or find the smaller-to-larger scale factor. Check corresponding angles and side ratios.

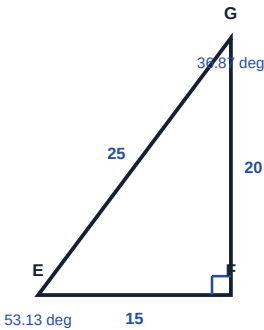
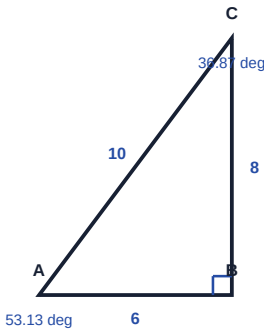
5. These polygons are similar. Find the scale factor from the smaller polygon to the larger polygon.



Correspondence: A<->E, B<->F, C<->G, D<->H

Scale factor: _____

6. These polygons are similar. Find the scale factor from the smaller polygon to the larger polygon.



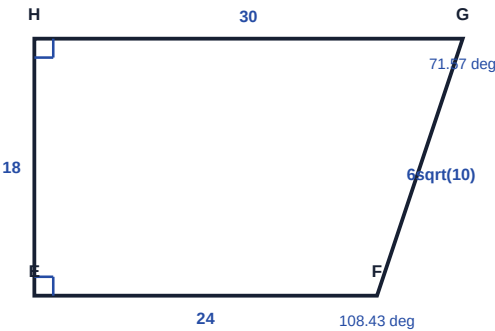
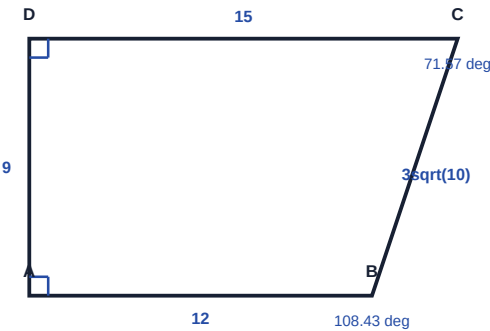
Correspondence: A<->E, B<->F, C<->G

Scale factor: _____

Similar Polygons

Use the printed correspondence to decide similarity or find the smaller-to-larger scale factor. Check corresponding angles and side ratios.

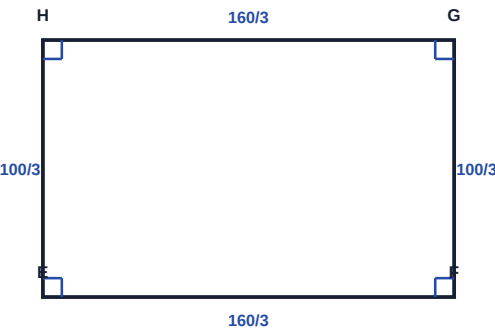
7. These polygons are similar. Find the scale factor from the smaller polygon to the larger polygon.



Correspondence: A<->E, B<->F, C<->G, D<->H

Scale factor: _____

8. These polygons are similar. Find the scale factor from the smaller polygon to the larger polygon.



Correspondence: A<->E, B<->F, C<->G, D<->H

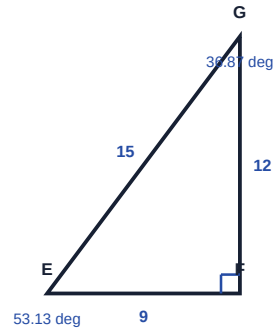
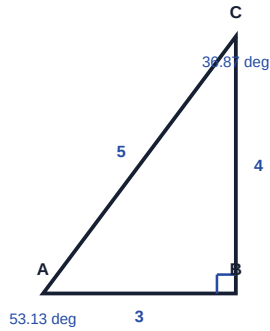
Scale factor: _____

Similar Polygons

Worked Answer Key

Use the printed correspondence to decide similarity or find the smaller-to-larger scale factor. Check corresponding angles and side ratios.

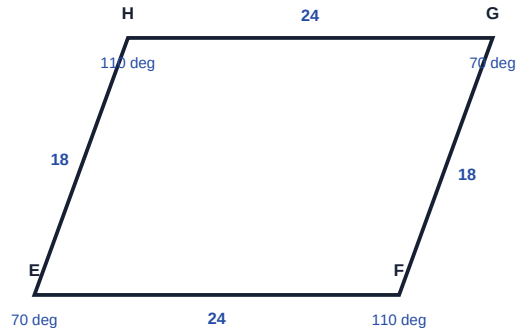
1. Are these polygons similar? Justify using the printed correspondence.



Correspondence: $A \leftrightarrow E$, $B \leftrightarrow F$, $C \leftrightarrow G$

Similar. All corresponding lengths use ratio 3; the right polygon is a uniform-scale image, so angles match.

2. Are these polygons similar? Justify using the printed correspondence.



Correspondence: $A \leftrightarrow E$, $B \leftrightarrow F$, $C \leftrightarrow G$, $D \leftrightarrow H$

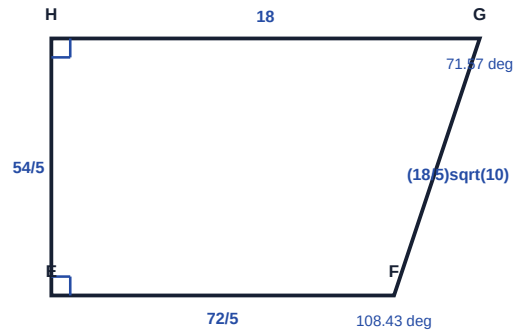
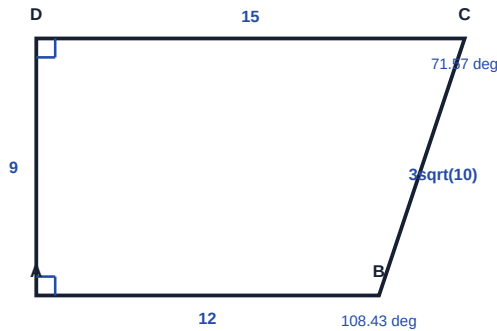
Not similar. No. At least two corresponding side ratios differ, decisively ruling out similarity.

Similar Polygons

Worked Answer Key

Use the printed correspondence to decide similarity or find the smaller-to-larger scale factor. Check corresponding angles and side ratios.

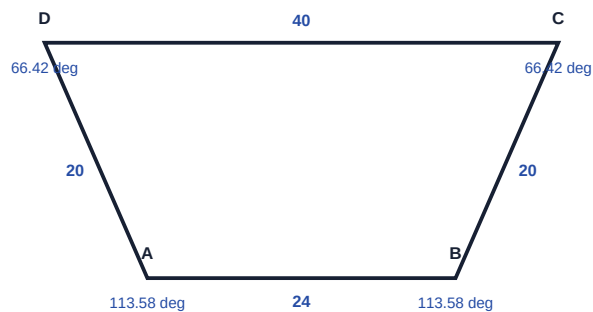
3. Are these polygons similar? Justify using the printed correspondence.



Correspondence: $A \leftrightarrow E$, $B \leftrightarrow F$, $C \leftrightarrow G$, $D \leftrightarrow H$

Similar. All corresponding lengths use ratio $6/5$; the right polygon is a uniform-scale image, so angles match.

4. Are these polygons similar? Justify using the printed correspondence.



Correspondence: $A \leftrightarrow E$, $B \leftrightarrow F$, $C \leftrightarrow G$, $D \leftrightarrow H$

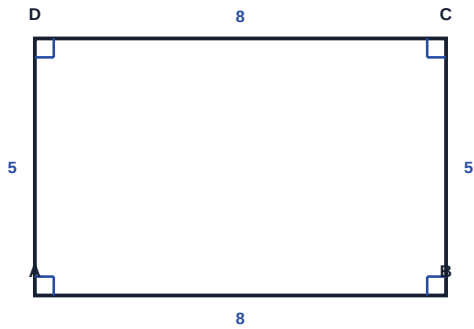
Not similar. No. At least two corresponding side ratios differ, decisively ruling out similarity.

Similar Polygons

Worked Answer Key

Use the printed correspondence to decide similarity or find the smaller-to-larger scale factor. Check corresponding angles and side ratios.

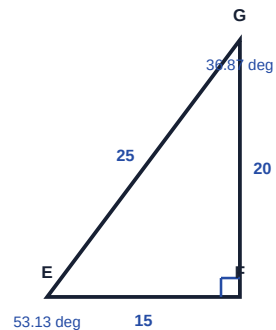
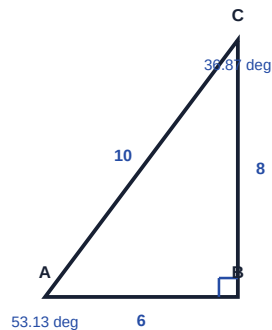
5. These polygons are similar. Find the scale factor from the smaller polygon to the larger polygon.



Correspondence: $A \leftrightarrow E$, $B \leftrightarrow F$, $C \leftrightarrow G$, $D \leftrightarrow H$

Scale factor: $\frac{4}{3}$. All corresponding lengths use ratio $\frac{4}{3}$; the right polygon is a uniform-scale image, so angles match.

6. These polygons are similar. Find the scale factor from the smaller polygon to the larger polygon.



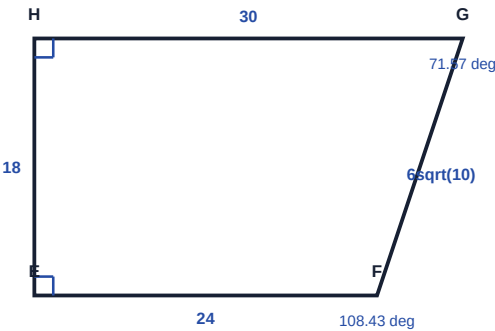
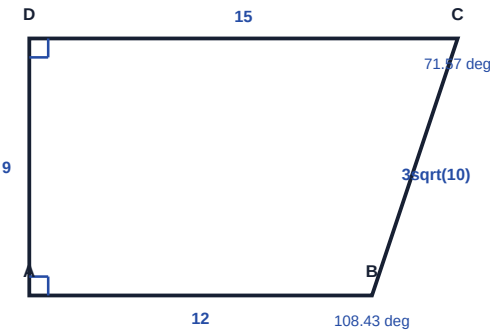
Correspondence: $A \leftrightarrow E$, $B \leftrightarrow F$, $C \leftrightarrow G$

Scale factor: $\frac{5}{2}$. All corresponding lengths use ratio $\frac{5}{2}$; the right polygon is a uniform-scale image, so angles match.

Similar Polygons
Worked Answer Key

Use the printed correspondence to decide similarity or find the smaller-to-larger scale factor. Check corresponding angles and side ratios.

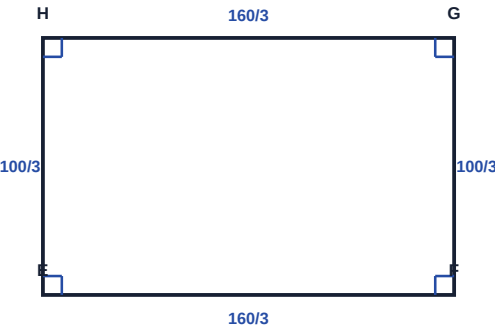
7. These polygons are similar. Find the scale factor from the smaller polygon to the larger polygon.



Correspondence: $A \leftrightarrow E$, $B \leftrightarrow F$, $C \leftrightarrow G$, $D \leftrightarrow H$

Scale factor: 2. All corresponding lengths use ratio 2; the right polygon is a uniform-scale image, so angles match.

8. These polygons are similar. Find the scale factor from the smaller polygon to the larger polygon.



Correspondence: $A \leftrightarrow E$, $B \leftrightarrow F$, $C \leftrightarrow G$, $D \leftrightarrow H$

Scale factor: $5/3$. All corresponding lengths use ratio $5/3$; the right polygon is a uniform-scale image, so angles match.