

Using Similar Polygons

Use corresponding sides in the printed left-to-right direction to find x.

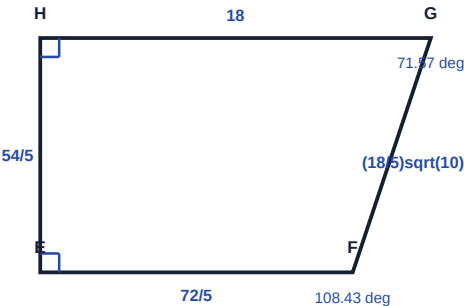
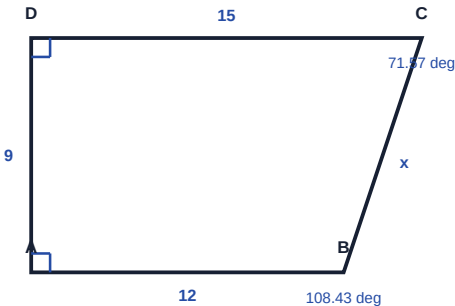
1. The polygons are similar with the printed correspondence. Find x. The left:right ratio is 2:5.



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

Left : right = 2:5

2. The polygons are similar with the printed correspondence. Find x. Infer the left:right ratio from a known corresponding pair.

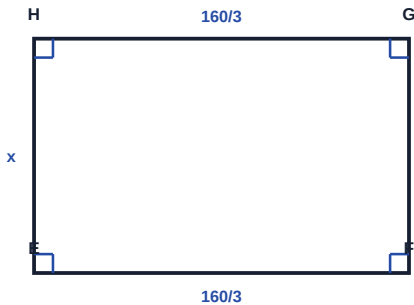


Correspondence: A<->E, B<->F, C<->G, D<->H

Using Similar Polygons

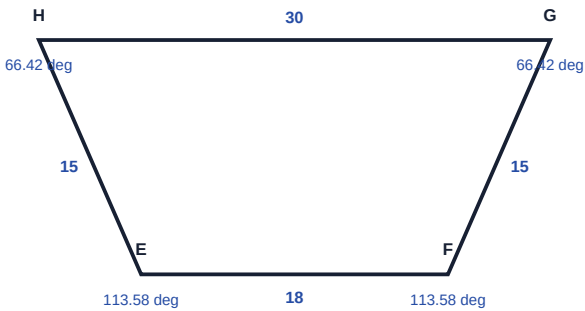
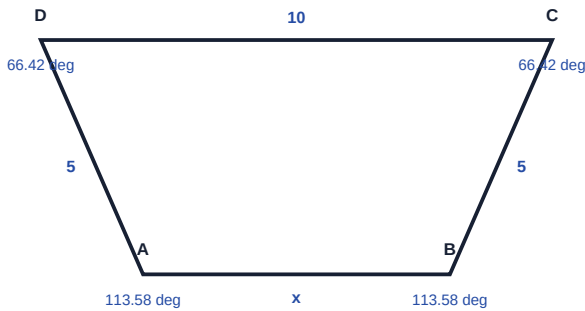
Use corresponding sides in the printed left-to-right direction to find x.

3. The polygons are similar with the printed correspondence. Find x. The left:right ratio is 3:5.



Correspondence: A<->E, B<->F, C<->G, D<->H
Left : right = 3:5

4. The polygons are similar with the printed correspondence. Find x. Infer the left:right ratio from a known corresponding pair.

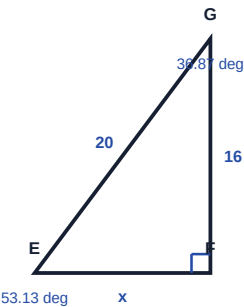
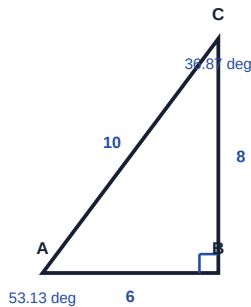


Correspondence: A<->E, B<->F, C<->G, D<->H

Using Similar Polygons

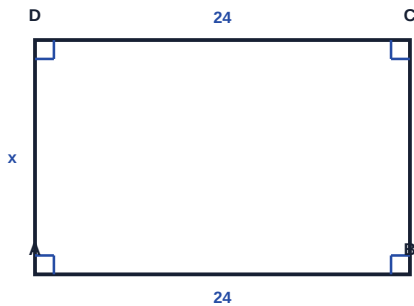
Use corresponding sides in the printed left-to-right direction to find x.

5. The polygons are similar with the printed correspondence. Find x. The left:right ratio is 1:2.



Correspondence: A<->E, B<->F, C<->G
Left : right = 1:2

6. The polygons are similar with the printed correspondence. Find x. Infer the left:right ratio from a known corresponding pair.

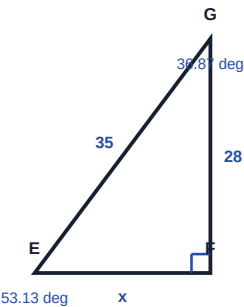
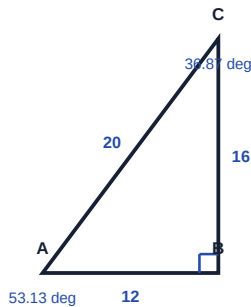


Correspondence: A<->E, B<->F, C<->G, D<->H

Using Similar Polygons

Use corresponding sides in the printed left-to-right direction to find x.

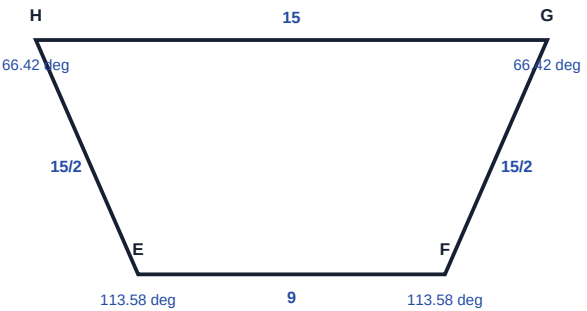
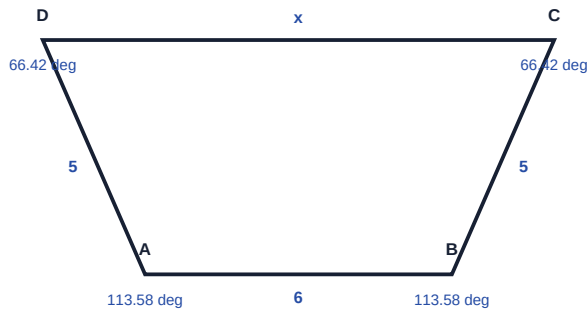
7. The polygons are similar with the printed correspondence. Find x. The left:right ratio is 4:7.



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

Left : right = 4:7

8. The polygons are similar with the printed correspondence. Find x. Infer the left:right ratio from a known corresponding pair.



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

Using Similar Polygons

Worked Answer Key

Use corresponding sides in the printed left-to-right direction to find x.

1. The polygons are similar with the printed correspondence. Find x. The left:right ratio is 2:5.



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

Left : right = 2:5

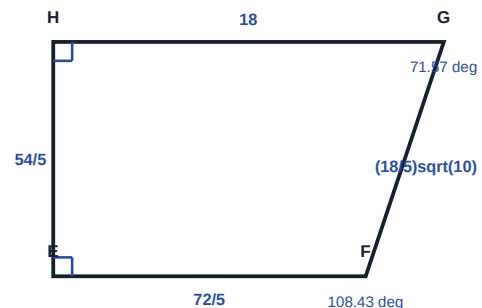
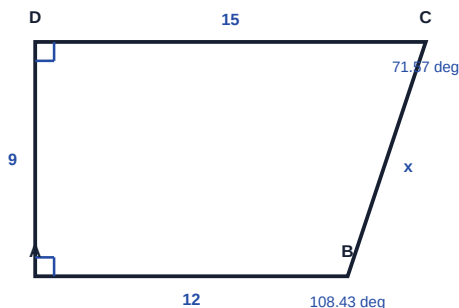
Proportion: right/left = 5/2

Use corresponding side 1.

$$x = 40.$$

$$x = 40$$

2. The polygons are similar with the printed correspondence. Find x. Infer the left:right ratio from a known corresponding pair.



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

Proportion: right/left = 6/5

Use corresponding side 2.

$$x = 3\sqrt{10}.$$

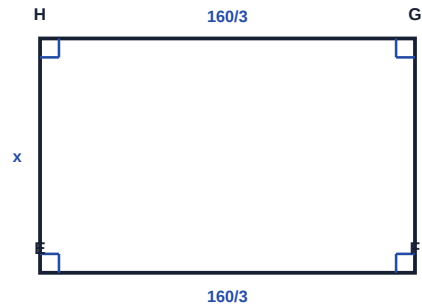
$$x = 3\sqrt{10}$$

Using Similar Polygons

Worked Answer Key

Use corresponding sides in the printed left-to-right direction to find x.

3. The polygons are similar with the printed correspondence. Find x. The left:right ratio is 3:5.



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

Left : right = 3:5

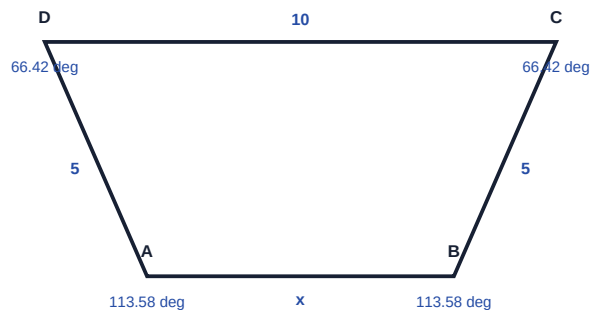
Proportion: right/left = 5/3

Use corresponding side 4.

$$x = 100/3.$$

$$x = 100/3$$

4. The polygons are similar with the printed correspondence. Find x. Infer the left:right ratio from a known corresponding pair.



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

Proportion: right/left = 3

Use corresponding side 1.

$$x = 6.$$

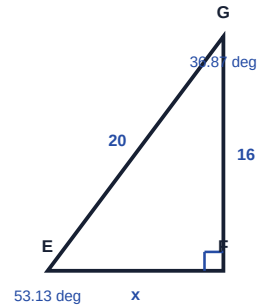
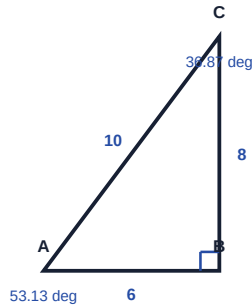
$$x = 6$$

Using Similar Polygons

Worked Answer Key

Use corresponding sides in the printed left-to-right direction to find x.

5. The polygons are similar with the printed correspondence. Find x. The left:right ratio is 1:2.

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

Left : right = 1:2

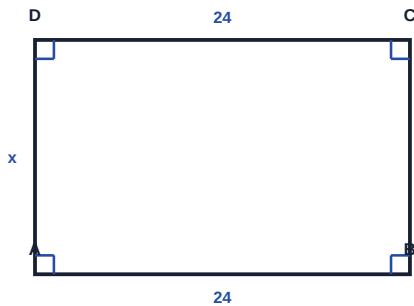
Proportion: right/left = 2

Use corresponding side 1.

$$x = 12.$$

$$x = 12$$

6. The polygons are similar with the printed correspondence. Find x. Infer the left:right ratio from a known corresponding pair.

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

Proportion: right/left = 4/3

Use corresponding side 4.

$$x = 15.$$

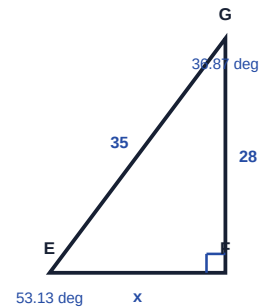
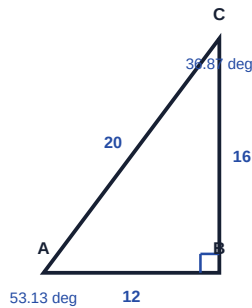
$$x = 15$$

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Worked Answer Key

Use corresponding sides in the printed left-to-right direction to find x.

7. The polygons are similar with the printed correspondence. Find x. The left:right ratio is 4:7.

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

Left : right = 4:7

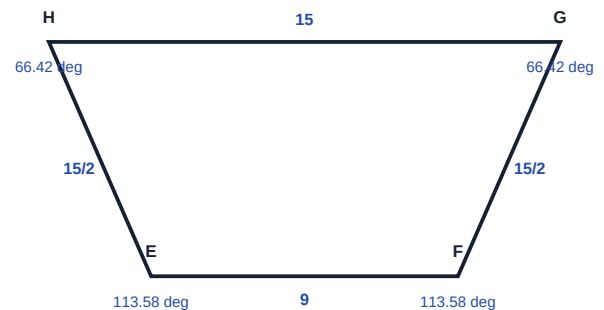
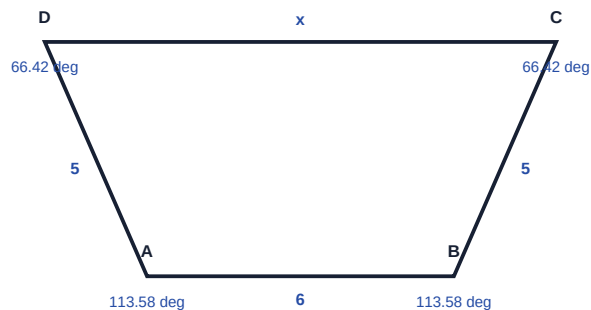
Proportion: right/left = 7/4

Use corresponding side 1.

$$x = 21.$$

$$x = 21$$

8. The polygons are similar with the printed correspondence. Find x. Infer the left:right ratio from a known corresponding pair.

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

Proportion: right/left = 3/2

Use corresponding side 3.

$$x = 10.$$

$$x = 10$$