

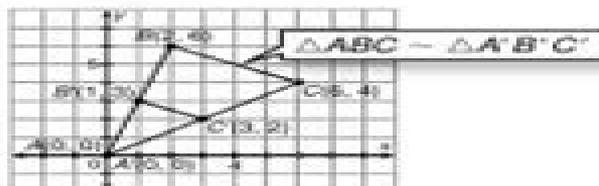
LESSON

Reteach

7-6 Dilations and Similarity in the Coordinate Plane

A **dilation** is a transformation that changes the size of a figure but not its shape. The preimage and image are always similar. A **scale factor** describes how much a figure is enlarged or reduced.

Triangle ABC has vertices $A(0, 0)$, $B(2, 6)$, and $C(6, 4)$. Find the coordinates of the vertices of the image after a dilation with a scale factor $\frac{1}{2}$.



Preimage

Image

$\triangle ABC$

$\triangle A'B'C'$

$A(0, 0) \rightarrow (0 \cdot \frac{1}{2}, 0 \cdot \frac{1}{2}) \rightarrow A'(0, 0)$

$B(2, 6) \rightarrow (2 \cdot \frac{1}{2}, 6 \cdot \frac{1}{2}) \rightarrow B'(1, 3)$

$C(6, 4) \rightarrow (6 \cdot \frac{1}{2}, 4 \cdot \frac{1}{2}) \rightarrow C'(3, 2)$

$\triangle FEG \sim \triangle HEJ$. Find the coordinates of F and the scale factor.

$\frac{FE}{HE} = \frac{EG}{EJ}$

Write a proportion.

$\frac{FE}{6} = \frac{4}{8}$

$HE = 6$, $EG = 4$, and $EJ = 8$.

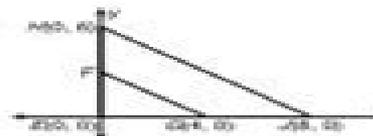
$8(FE) = 24$

Cross Products Property

$FE = 3$

Divide both sides by 8.

So the coordinates of F are $(0, 3)$. Since $F(0, 3) \rightarrow (0 \cdot 2, 3 \cdot 2) \rightarrow H(0, 6)$, the scale factor is $\frac{2}{1}$.



1. Triangle EFG has vertices $E(0, 0)$, $F(1, 5)$, and $G(7, 2)$. Find the coordinates of the image after a dilation with a scale factor $\frac{2}{1}$.

2. Rectangle $LMNP$ has vertices $L(-6, 0)$, $M(6, 0)$, $N(6, -3)$, and $P(-6, -3)$. Find the coordinates of the image after a dilation with a scale factor $\frac{1}{3}$.

3. Given that $\triangle AEB \sim \triangle CED$, find the coordinates of C and the scale factor.

4. Given that $\triangle LKM \sim \triangle NKP$, find the coordinates of P and the scale factor.



Holt Geometry Section 5a

M Walker



Holt Geometry Section 5a:

The book delves into Holt Geometry Section 5a. Holt Geometry Section 5a is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Holt Geometry Section 5a, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Holt Geometry Section 5a
 - Chapter 2: Essential Elements of Holt Geometry Section 5a
 - Chapter 3: Holt Geometry Section 5a in Everyday Life
 - Chapter 4: Holt Geometry Section 5a in Specific Contexts
 - Chapter 5: Conclusion
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4. In chapter 3, the author will examine the practical applications of Holt Geometry Section 5a in daily life. The third chapter will showcase real-world examples of how Holt Geometry Section 5a can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Holt Geometry Section 5a in specific contexts. The fourth chapter will explore how Holt Geometry Section 5a is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Holt Geometry Section 5a. The final chapter will summarize the key points that have been discussed throughout the book.

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