

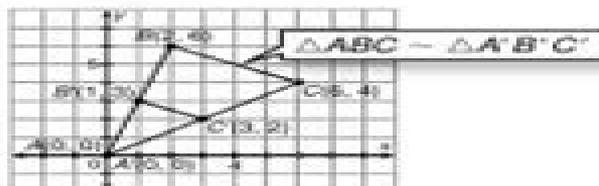
LESSON

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 $EJ = 8$.

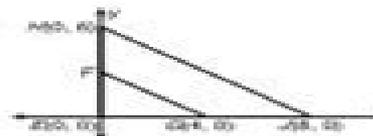
$8(FE) = 24$

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

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Table of Contents Holt Geometry Section 5a

1. Understanding the eBook Holt Geometry Section 5a
 - The Rise of Digital Reading Holt Geometry Section 5a
 - Advantages of eBooks Over Traditional Books
2. Identifying Holt Geometry Section 5a
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Holt Geometry Section 5a
 - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Geometry Section 5a
 - Personalized Recommendations
 - Holt Geometry Section 5a User Reviews and Ratings
 - Holt Geometry Section 5a and Bestseller Lists
5. Accessing Holt Geometry Section 5a Free and Paid eBooks
 - Holt Geometry Section 5a Public Domain eBooks
 - Holt Geometry Section 5a eBook Subscription Services

- Holt Geometry Section 5a Budget-Friendly Options
6. Navigating Holt Geometry Section 5a eBook Formats
 - ePub, PDF, MOBI, and More
 - Holt Geometry Section 5a Compatibility with Devices
 - Holt Geometry Section 5a Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Holt Geometry Section 5a
 - Highlighting and Note-Taking Holt Geometry Section 5a
 - Interactive Elements Holt Geometry Section 5a
 8. Staying Engaged with Holt Geometry Section 5a
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Holt Geometry Section 5a
 9. Balancing eBooks and Physical Books Holt Geometry Section 5a
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Holt Geometry Section 5a
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Holt Geometry Section 5a
 - Setting Reading Goals Holt Geometry Section 5a
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Holt Geometry Section 5a
 - Fact-Checking eBook Content of Holt Geometry Section 5a
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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