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Sequence of transformations worksheet pdf

In order to continue enjoying our website, we ask that you confirm your identity as a human being. Thank you so much for your cooperation. Examples, solutions, videos and lessons to help High School students when giving a geometric figure and a rotation, reflection or translation, the transformed figure pulls the transformed figure using, e.g. graph paper, detection of paper, or geometry software. Specify a sequence of transformations that will carry a given figure to another. Related topics: Common Core Geometry Common Core Mathematics Common Core: HSG-CO. A.5 Composite Transformation Theorem There is a connection between the three transformations: reflections, translations and rotations. Parallel Line Theorem: A compilation of reflections across two parallel lines is a translation. When a figure is reflected in two parallel lines, the final image is a translation towards perpendicular on the parallel lines and twice the distance between them. The following diagram shows that a compilation of reflections across two parallel lines is a translation. Scroll on the page for more examples and solutions of reflections on parallel lines. Intersecting Lines Theorem: A compilation of reflections across two parallel lines is a rotation. When a figure is reflected in two lines, then the final image is a rotation of the figure about the point of intersection of the lines by an angle twice the angle between the lines. The following diagram shows that a compilation of reflections over two parallel lines is a rotation. Scroll on the page for more examples and solutions of reflections on parallel lines. Composition of Transformations (1) Look at the composition of transformations – the combination of transformations in a series. Specifically look at sliding reflections: translation followed by reflection. Show Step-by-Step Solutions Composition of Transformations (2) Look at the composition of transformations – combining transformations in a series. Specifically look at sliding reflections, reflection followed by rotation. Show Step-by-Step Solutions Composition of Transformations (3) Composition Theorem: The composition of two or more isometries is an isometry. Reflections in Parallel Lines Theorem: If lines k and m are parallel, then the reflection in line k followed by a reflection in line m is the same as a translation. Show step-by-step Solutions Composition of Transformations (4) Reflection in Intersecting Lines Theorem: If lines k and m intersect at point P , then a reflection in k followed by a reflection in m is the same as a rotation about the point P . Show Step-by-step Solutions Transformational Geometry (Translations, Rotations, Reflections) Show Step-by-Step Solutions Define Transformations to Fit Polygons Show Step-by-Step Solutions Match Composition of Transformations Glide : Transformation followed by reflection translation followed by rotation Composition of Transformations Reflections in Lines Theorem Reflections in Intersecting Lines Theorem Show Step-by-Step Solutions Composite Transformations in Geometric Figures This video discusses composite transformations and works through some examples of how to do a compound transformation. Show step-by-step Solutions found in Parallel Lines reflect the blue triangle in the blue-green line to form the green image. Reflect the green triangle in the green-red line to form the red image. The red triangle, which is reflected twice, is oriented like the blue triangle. Ignore the green triangle, the result of the two reflections is to translate the blue triangle to the red triangle by twice the distance between the two mirror lines. Reflection in Intersecting Lines reflects the blue triangle in the blue-green line to form the green image. Reflect the green triangle in the green-red line to form the red image. The red triangle, which is reflected twice, is oriented like the blue triangle. Ignore the green triangle, the result of the two reflections is to turn the blue triangle to the red triangle over the intersection of the two mirror lines by twice the angle between them. Try the free Mathway calculator and problem solver below to practice various mathematics topics. Try the given examples, or type your own problem and check your answer with the step-by-step explanations. We welcome your feedback, comments and questions about this website or page. Please file your feedback or queries via our feedback page. Page.

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