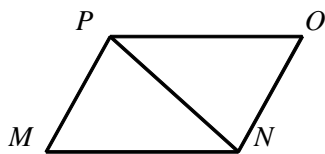
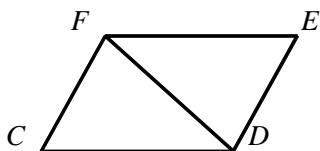


P.I. G.G.54: Define, investigate, justify, and apply isometries in the plane (rotations, reflections, translations, glide reflections)

1. Given: $\triangle MNP \rightarrow \triangle OPN$ is an isometry.
Find the image of \overline{NP} .

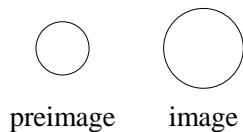


2. Given: $\triangle CDF \rightarrow \triangle EFD$ is an isometry.
Find the pre-image of \overline{ED} .

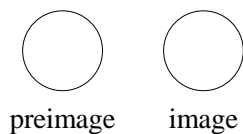


3. Which of the following transformations represents an isometry?

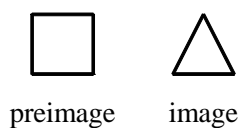
[A]



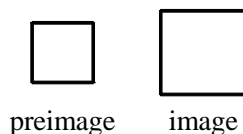
[B]



[C]



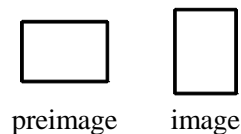
[D]



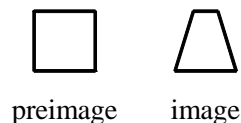
NAME: _____

4. Which of the following transformations represents an isometry?

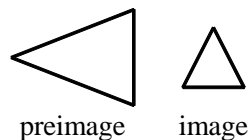
[A]



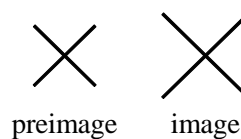
[B]



[C]

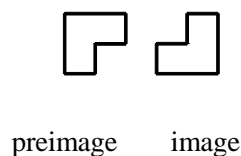


[D]

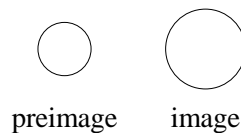


5. Which of the following transformations represents an isometry?

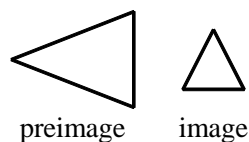
[A]



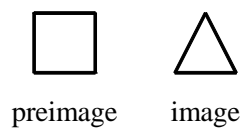
[B]



[C]



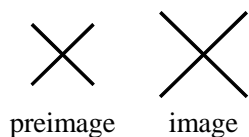
[D]



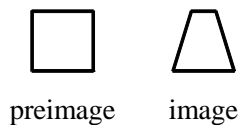
NAME: _____

6. Which of the following transformations represents an isometry?

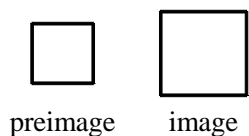
[A]



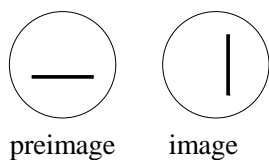
[B]



[C]

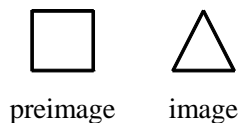


[D]

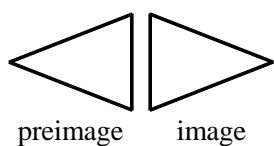


7. Which of the following transformations represents an isometry?

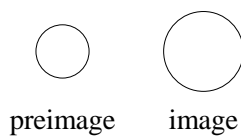
[A]



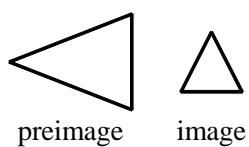
[B]



[C]

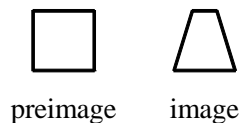


[D]

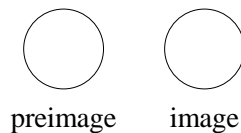


8. Which of the following transformations represents an isometry?

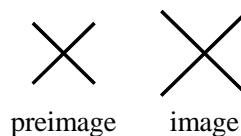
[A]



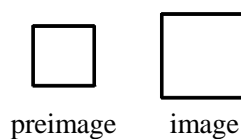
[B]



[C]

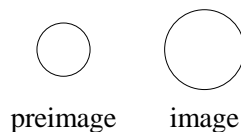


[D]

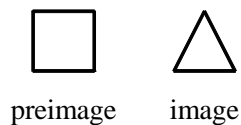


9. Which of the following transformations represents an isometry?

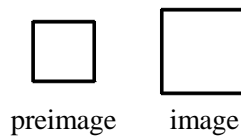
[A]



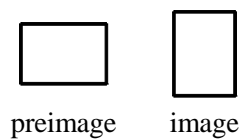
[B]



[C]



[D]



[1] \overline{PN}

[2] \overline{CF}

[3] B

[4] A

[5] A

[6] D

[7] B

[8] B

[9] D