Given $f(x) = x^2$

a) find f(-2) = _____ b) find f(2) = _____ c) f(0) = _____ d) f(5)=_____

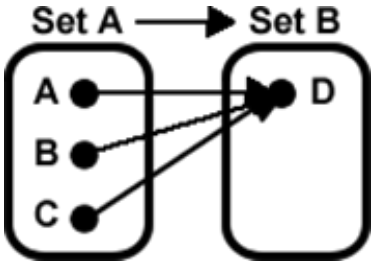
e) Use the data in a-d to complete the diagram to the right.

f) is it a function? YES OR NO

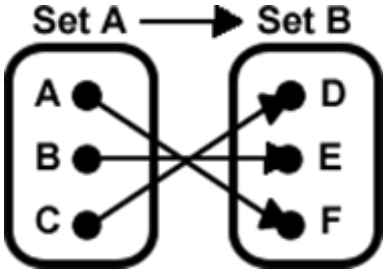
g) is it a one to one function? YES OR NO

Determine whether the following are functions or not.

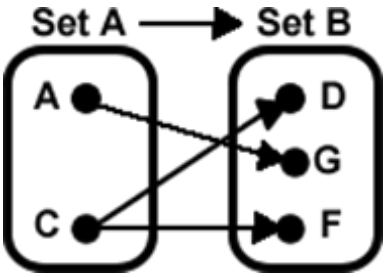
a)



b)



c)



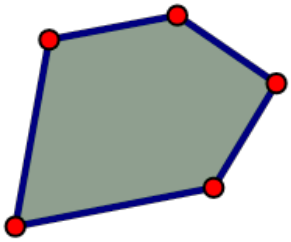
Which of the following are isometric transformations.

Pre-Image

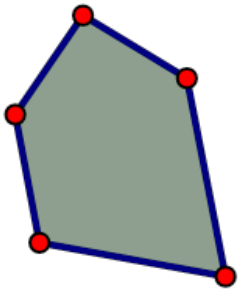
a) b) c)

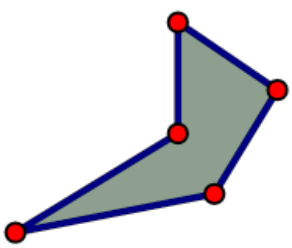
Which of the following are isometric transformations.

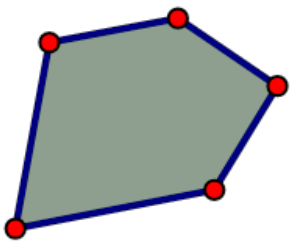
Pre-Image



a) b) c)



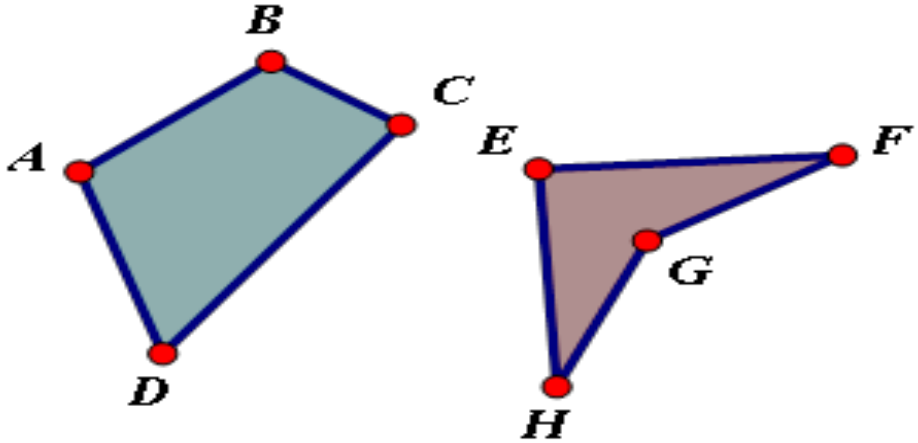




Jane claims that any two circles are always isometric because the shape never changes. Is she correct?

a) Given that the pre-image is Quadrilateral ABCD, determine if the following could be classified as a mapping of the plane.

b) Determine if the following could be classified as a transformation.



Given $f(x) = -5x + 6$

a) find f(-2) = _____ b) find f(2) = _____ c) f(0) = _____ d) f(5)=_____

e) Use the data in a-d to complete the diagram to the right.

f) is it a function? YES OR NO

g) is it a one to one function? YES OR NO

Which of the following are isometric transformations.

Pre-Image

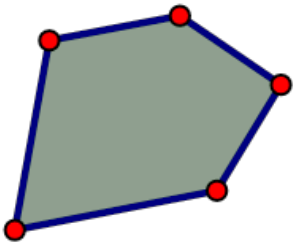
a)

b)

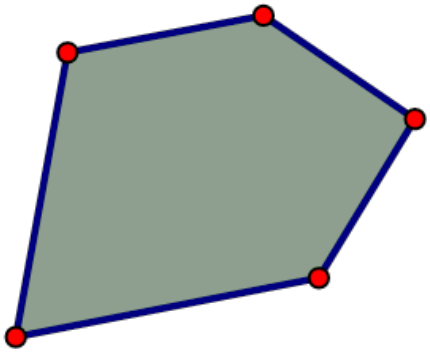
c)

Which of the following are isometric transformations.

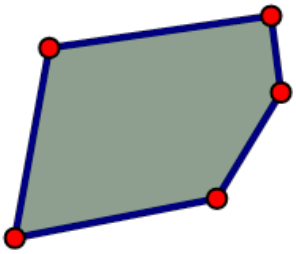
Pre-Image



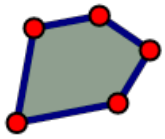
a)



b)



c)

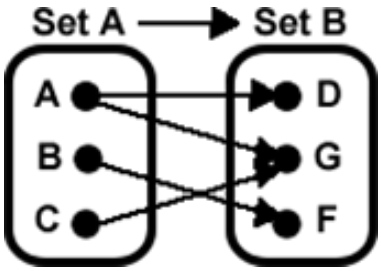


Transformations are a specific type of mapping.

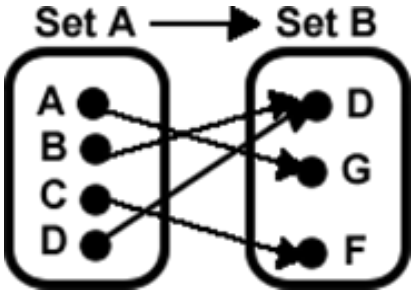
What makes them special from the general process of mapping?

Determine whether the following are functions or not.

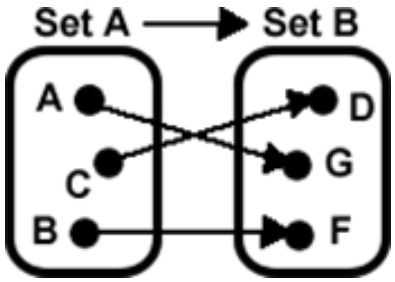
a)



b)



c)



Jeff is given a question on a test about transformations.

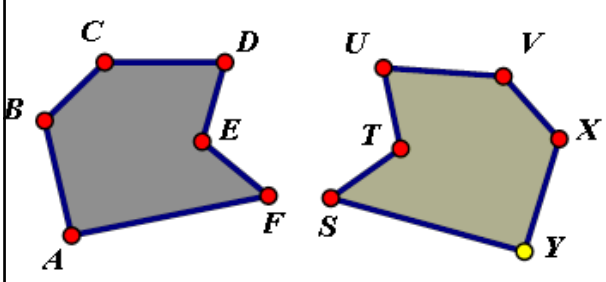
He is given two examples both with pre-image hexagon ABCDE.

The question asks if the two shapes are a transformation or not.

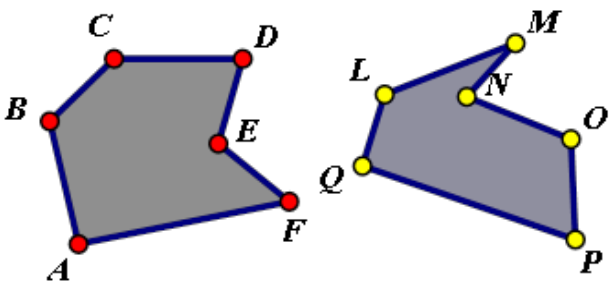
On the first one he said **Yes** they are transformations because they are identical but in a different location and on the second one he said **No** that it was not a transformation because they we different shapes.

Is he correct? Explain why you agree or disagree?

Example #1

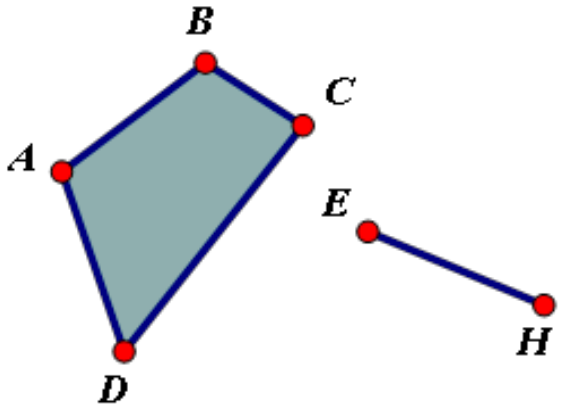


Example #2

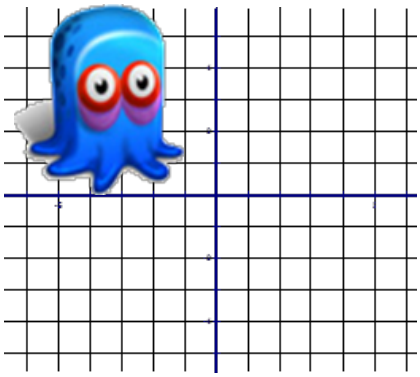


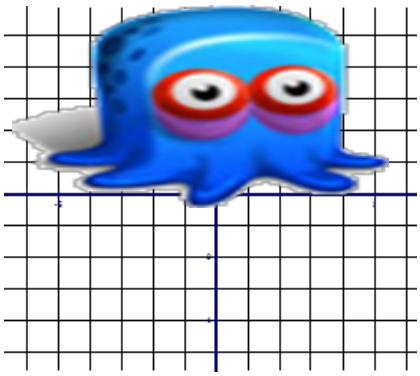
a) Given that the pre-image is Quadrilateral ABCD, determine if the following could be classified as a mapping of the plane.

b) Determine if the following could be classified as a transformation.



Determine if the pre-image and image are isometric and also which transformation produced the image.





a) Given that the pre-image is Quadrilateral ABCD, determine if the following could be classified as a mapping of the plane.

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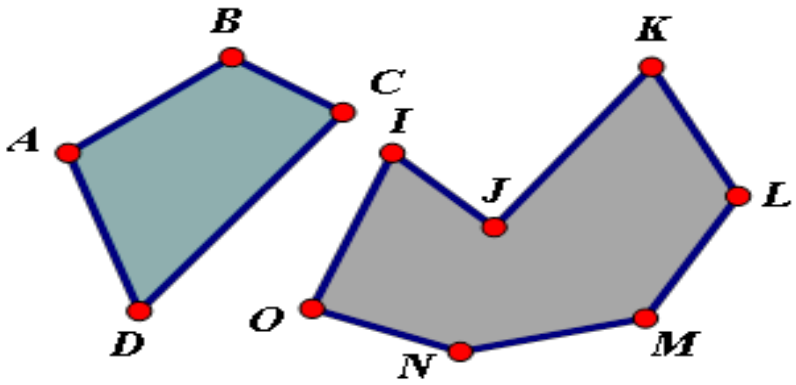


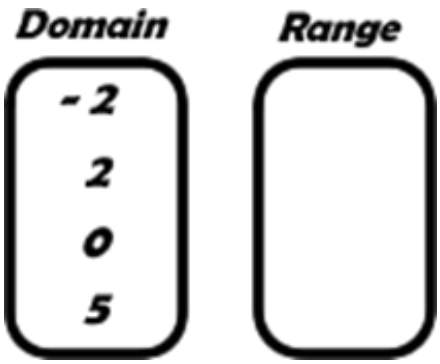
Given $f(x) = |x-1|$

a) find f(-2) = _____ b) find f(2) = _____ c) f(0) = _____ d) f(5)=_____

e) Use the data in a-d to complete the diagram to the right.

f) is it a function? YES OR NO

g) is it a one to one function? YES OR NO



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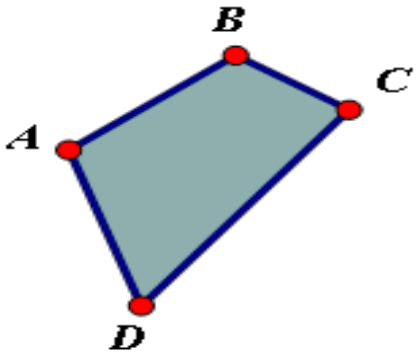
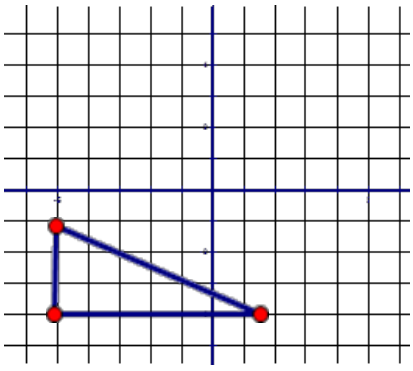
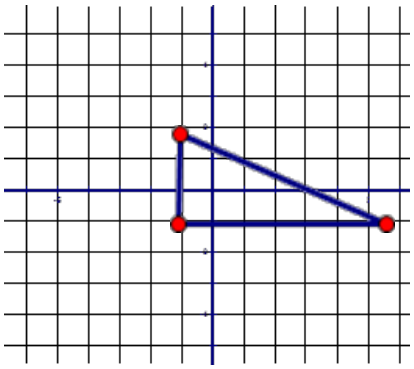
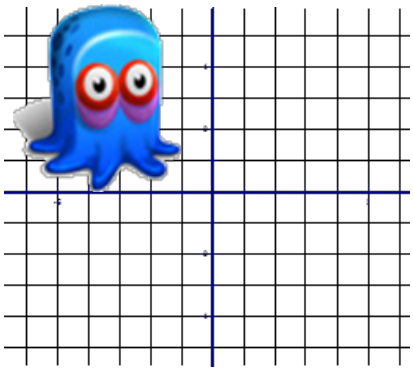


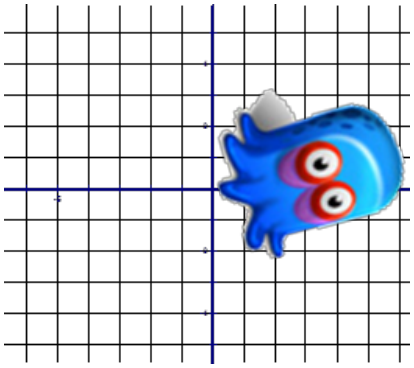
Determine if the pre-image and image are isometric and also which transformation produced the image.





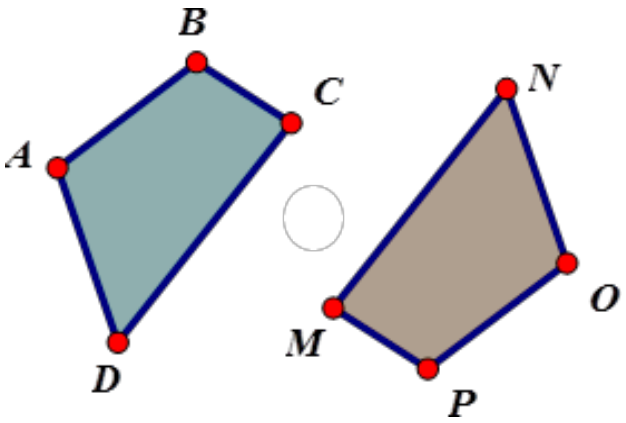
Determine if the pre-image and image are isometric and also which transformation produced the image.



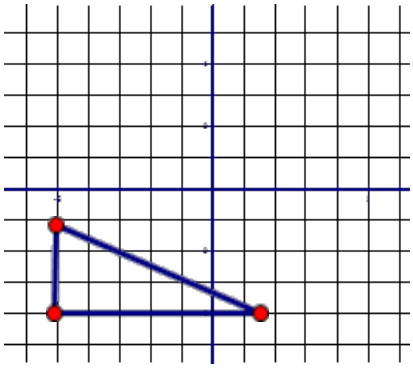


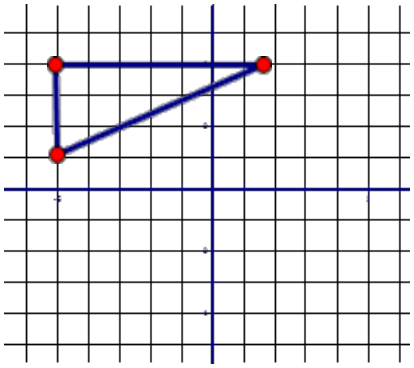
a) Given that the pre-image is Quadrilateral ABCD, determine if the following could be classified as a mapping of the plane.

b) Determine if the following could be classified as a transformation.



Determine if the pre-image and image are isometric and also which transformation produced the image.





a) Given that the pre-image is Quadrilateral ABCD, determine if the following could be classified as a mapping of the plane.

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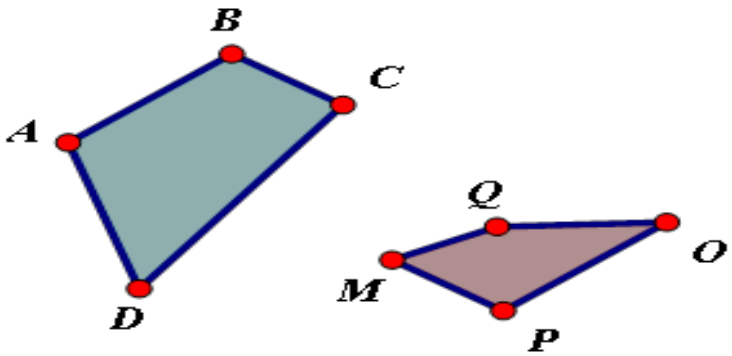
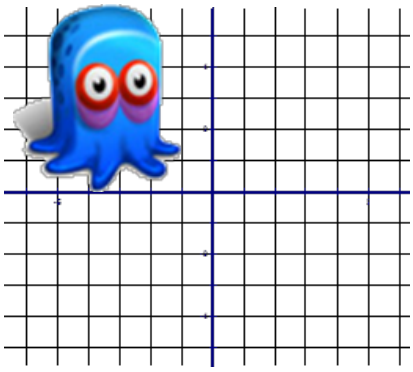
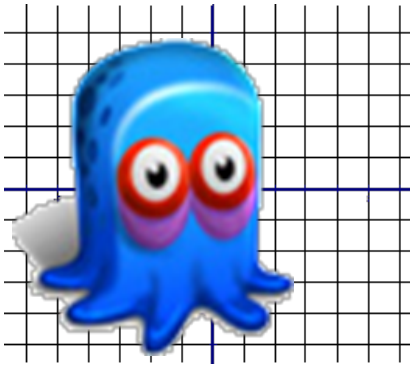


Determine if the pre-image and image are isometric and also which transformation produced the image.





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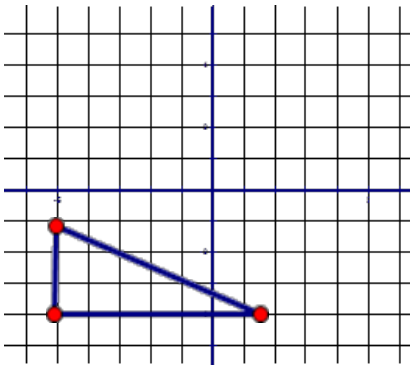

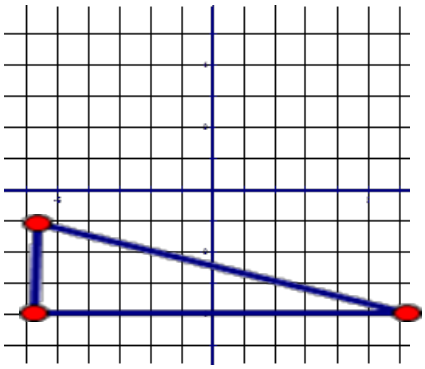

What are the 3 types of isometric transformations?