

I'm not robot!

Heat

1. Complete the descriptions of the types of heat transfer using the words in the box.
You can use the words more than once!

solidsliquidsunsunmove separate
dense riseenergycollidesinkgases space
risescurrentcontactfire temperature

Conduction

This is the way heat transfers through _____. When the particles near the heat source heat up, they get more _____ and start to _____ more. They _____ with the other particles and pass energy to them. Then these particles start to move more and _____ with the other particles ... This process continues until all the particles have the same energy and the whole object is the same _____.

Convection

This is the way heat transfers through _____ and _____. The particles near the heat source heat up and start to move more. They _____ more from the other particles, so this part becomes less _____. Because it is less dense, it _____. Cold particles move to fill the _____ that is created. Then they heat up and rise too. This produces a circular movement. The particles heat up and _____, cool down and _____, heat up and _____, cool down and _____. This is called a convection _____.

Radiation

This is how heat transfers without physical _____. It is how the _____'s energy reaches us on Earth or how we feel the heat of a _____ without touching it for example.

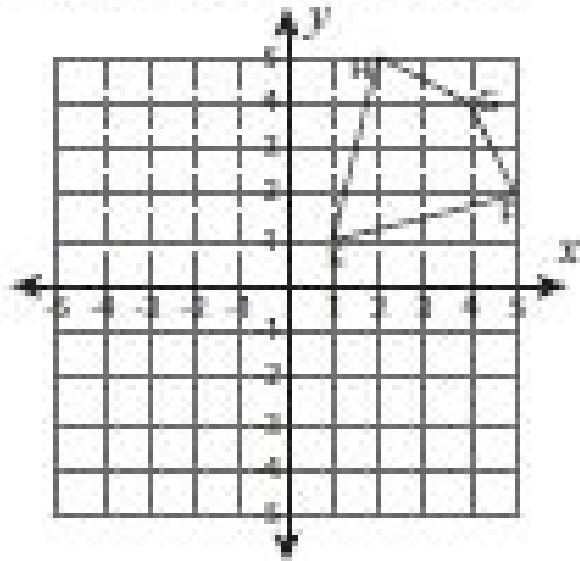
Name : _____ Score : _____

Write the New Coordinates

Sheet 1

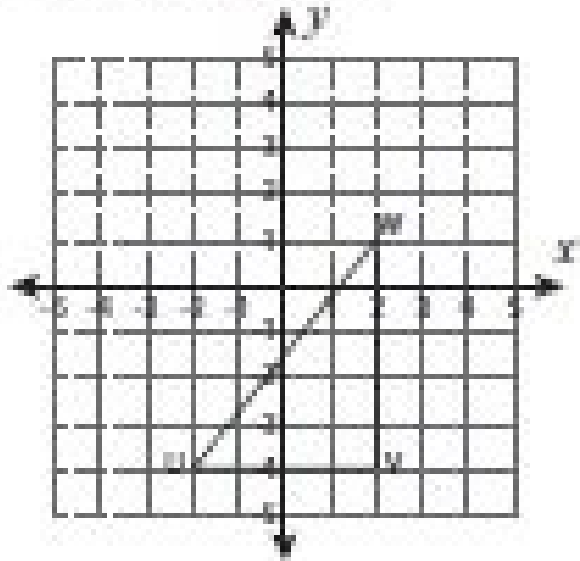
Graph the image of each figure after rotating it about the origin. Also write the coordinates of the image.

1) 90° counterclockwise rotation



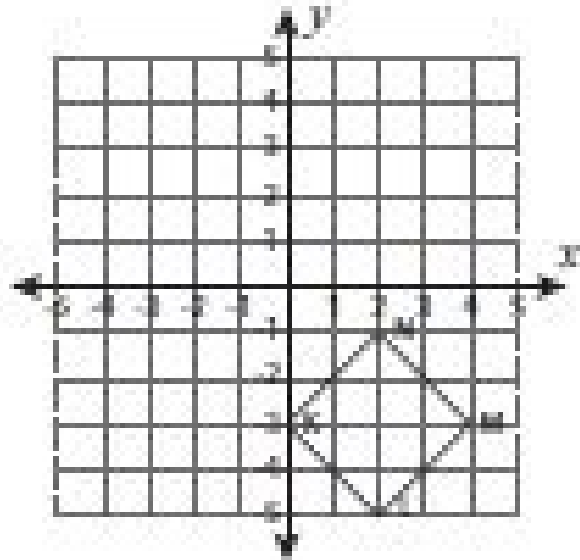
E' : _____, F' : _____
G' : _____, H' : _____

2) 90° clockwise rotation



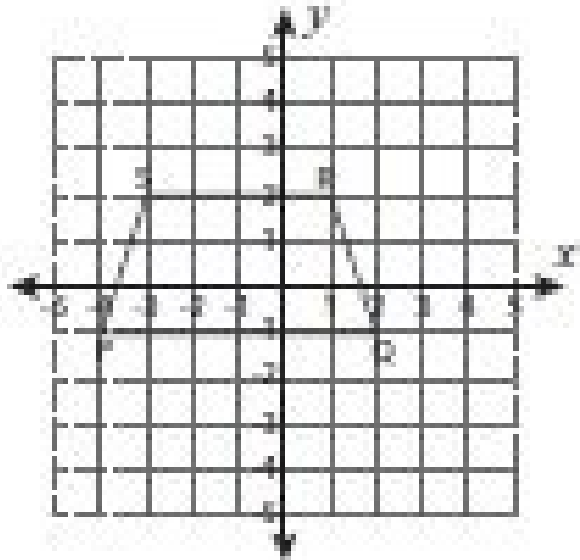
U' : _____, V' : _____
W' : _____

3) 180° rotation



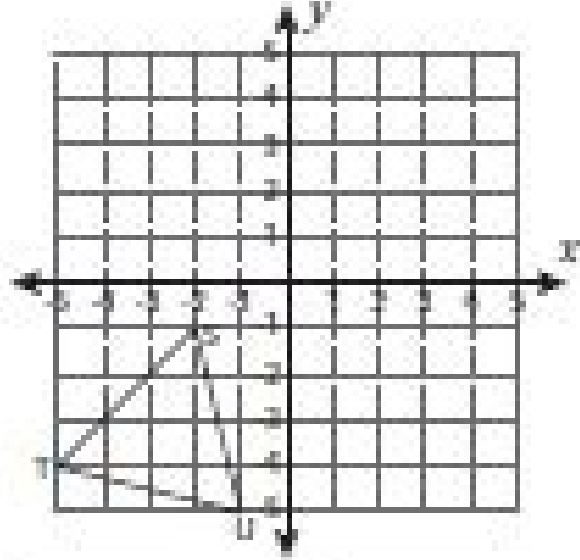
K' : _____, L' : _____
M' : _____, N' : _____

4) 90° counterclockwise rotation



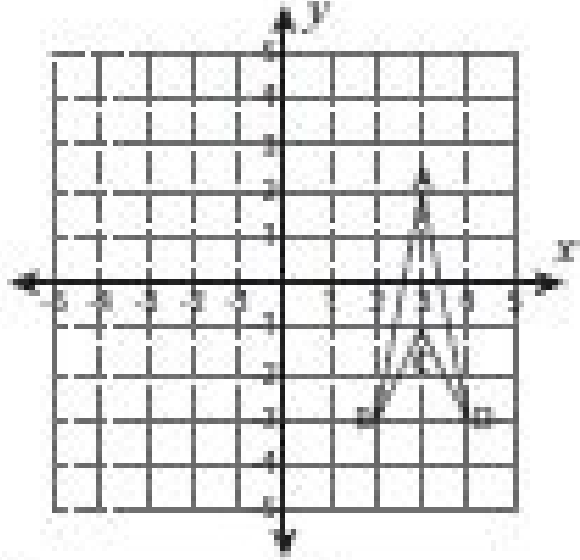
P' : _____, Q' : _____
R' : _____, S' : _____

5) 90° clockwise rotation



S' : _____, T' : _____
U' : _____

6) 180° rotation



A' : _____, B' : _____
C' : _____, D' : _____

Stoichiometry Practice Worksheet

Solve the following stoichiometry grams-grams problems:

- 1) Using the following equation:



How many grams of sodium sulfate will be formed if you start with 200.0 grams of sodium hydroxide and you have an excess of sulfuric acid?

- 2) Using the following equation:



How many grams of lithium nitrate will be needed to make 250.0 grams of lithium sulfate, assuming that you have an adequate amount of lead (IV) sulfate to do the reaction?

- 2) Using the following equation:



How many grams of lithium nitrate will be needed to make 250.0 grams of lithium sulfate, assuming that you have an adequate amount of lead (IV) sulfate to do the reaction?



Write an algebraic expression for each phrase.

- 1. a number g added to sixty-three
- 2. the quotient of seven and a number x
- 3. ten less than a number v
- 4. the difference between thirteen and a number k
- 5. a number q increased by seventy-two
- 6. the total of eleven and a number m
- 7. ninety-seven subtracted from a number r
- 8. the product of a number d and sixty-one
- 9. the sum of thirty-nine and a number f
- 10. twenty-three added to a number j
- 11. twelve divided by a number c
- 12. a number y multiplied by eighty-five
- 13. a number w decreased by fifty-eight
- 14. a number b minus fifty-eight
- 15. forty-six more than a number z
- 16. a number h divided by thirty-one
- 17. the sum of a number n and forty-nine
- 18. the quotient of a number s and forty-two
- 19. the product of forty and a number t
- 20. a number c added to twenty-three

