Transformations

Name:_____
Period:_____

For this assignment the gray buildings are the preimage, the Blue building is the post image.

1) Which axis is gray building reflected over?

2) If the gray building were to be reflected over the x-axis which quadrant would it be in?

3) If the gray building were to be rotated around the origin, how many degrees would the rotation be, and in what direction

4) If this building were to be rotated 180* around the origin and then reflected across the y-axis which quadrant would it be in?

5) What kind of transformation did the blue building make to become the gray building?

6) The gray building made two transformations to get to the blue what were they?

7) What kind of rotation around the origin would put the gray building in quadrant 1?

8) What kind of rotation around the origin was done to change the gray building to the blue building?

9) How could you rotate the Gray building around the origin around the origin so that it is in quadrant 2?

1)_____

2)_____

3)_____

4)_____

5)_____

6)

1st transformation

_____

2nd transformation

_____

7)_____

8)_____

9)_____

10) What to types of transformations were completed to move the gray building to the position of the blue building?

   i. 1st transformation_____
   ii. 2nd transformation_____

11) A rocket is falling to earth There has been a malfunction and the rocket can only rotate clockwise, how many degrees must it rotate to land safely top side up?

12) A rocket is falling to earth. There has been a malfunction and the rocket can only rotate Counter-clockwise, how many degrees must it rotate to land safely top side up?

13) The ship at 1,1 needs to dock at the pier at 2,4 Please list the transformation required to make it to the dock.(not all spaces may be used)

   1)_____

   2) _____

   3) _____

   4) _____

   5) _____

   6) _____

   7) _____

   8) _____

   9) _____

   10) _____

   11) _____

10)_____

1st transformation

_____

2nd transformation

_____

11)_____

12)_____