Math II Study Guide 1

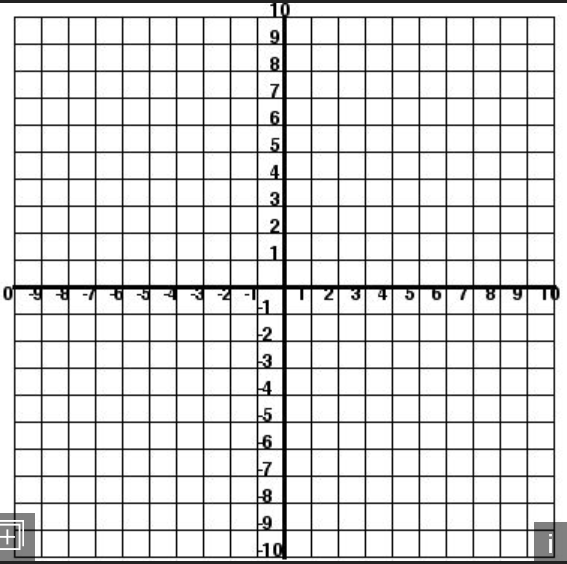
Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_

What type of transformation is shown in each figure?

|  |  |  |
| --- | --- | --- |
| Image result for transformation examples  Type of Transformation? | Related image  Type of transformation? | Image result for transformation examples rotation  Type of transformation? |

For each graph/figure shown, perform the required transformation.

|  |  |
| --- | --- |
| C:\Users\ngillihan\AppData\Local\Temp\d43a6576-22c5-417b-b0cf-af14cb7cf9a5.png  Rotate the line segment 90 degrees clockwise about the origin. | C:\Users\ngillihan\AppData\Local\Temp\d43a6576-22c5-417b-b0cf-af14cb7cf9a5.png  Rotate the line segment 180 degrees about the origin. |
| Related image  Translate the triangle according to the rule:  (x, y) 🡪 (x + 3, y -5) | Related image  Reflect the triangle over the x axis |
| Related image  Reflect the triangle over the line y = -x. | C:\Users\ngillihan\AppData\Local\Temp\5743b962-c2a9-47bd-bc79-354cf85213c8.png  Reflect the triangle across the line y = x. |

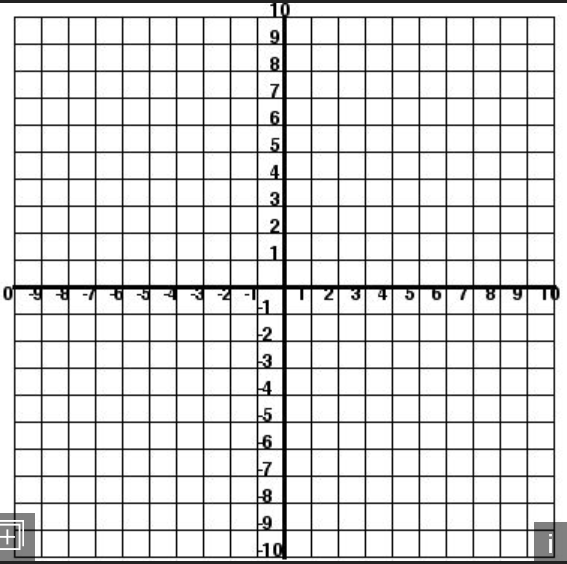


Graph the function on the coordinate plane.

k(x) = -½x – 7

Graph a line parallel to this line, but translate the line up 8 units. Label this line p(x).

Write the equation for p(x) in slope-intercept form.



Graph the function on the coordinate plane.

g(h) = 3x + 8

Graph a line perpendicular to this line anywhere on the coordinate plane

Write the equation for your line.