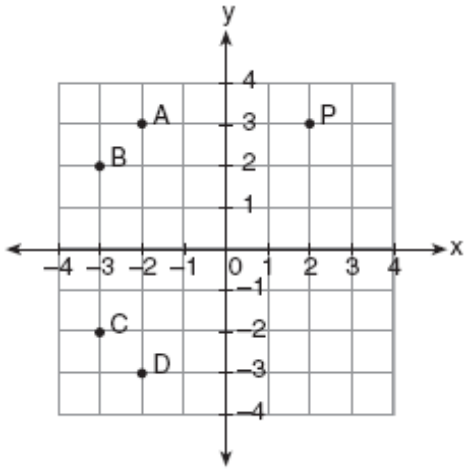
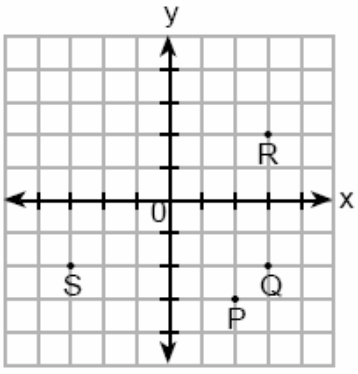
NAME:_____

1. 010418a, P.I. G.G.61
In the accompanying graph, if point P has coordinates (a,b), which point has coordinates $(-b,a)$?



[A] D [B] C [C] A [D] B

2. 069908a, P.I. G.G.61
If x = -3 and y = 2, which point on the accompanying graph represents $(-x, -y)$?



[A] R [B] Q [C] S [D] P

3. 060809b, P.I. G.G.54
If point (5, 2) is rotated counterclockwise 90° about the origin, its image will be point

[A] (-5, -2) [B] (-2, 5)

[C] (2, -5) [D] (2, 5)

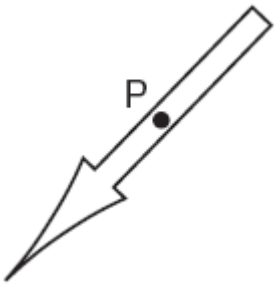
NAME:_____

4. 080721a, P.I. G.G.54

The accompanying diagram shows the starting position of the spinner on a board game.

How does this spinner appear after a 270° counterclockwise rotation about point *P*?

[A]



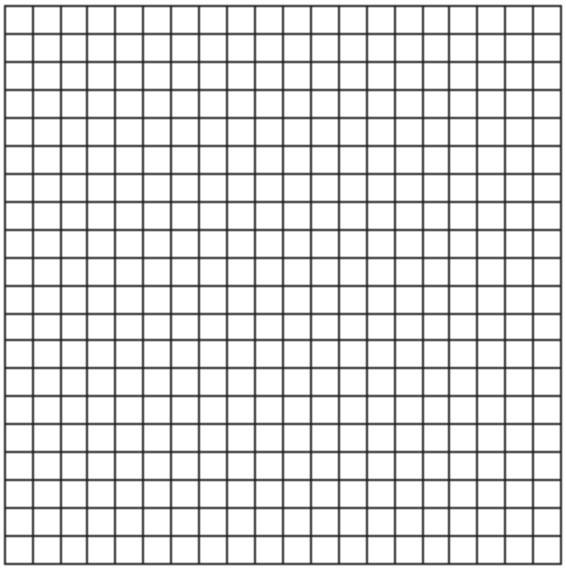
[B]

[C]

[D]

5. 080937ge, P.I. G.G.55

Triangle *DEG* has the coordinates $D(1,1)$, $E(5,1)$, and $G(5,4)$. Triangle *DEG* is rotated 90° about the origin to form $\Delta D'E'G'$. On the grid below, graph and label ΔDEG and $\Delta D'E'G'$. State the coordinates of the vertices D', E', and G'. Justify that this transformation preserves distance.



[1] D

[2] B

[3] B

[4] C

[4] $D'(-1,1)$, $E'(-1,5)$, $G'(-4,5)$, ΔDEG and $\Delta D'E'G'$ are graphed and labeled correctly, and an appropriate justification is given, such as showing congruent segments or stating that all rotations preserve distance.
[3] Appropriate work is shown, but one computational, graphing, or labeling error is made.
or [3] Appropriate work is shown, but no justification is given.
or [3] Appropriate work is shown, but the coordinates are not stated or are stated incorrectly.
[2] Appropriate work is shown, but one computational, graphing, or labeling error is made, and no justification is given.
or [2] Appropriate work is shown, but two or more computational, graphing, or labeling errors are made.
or [2] Appropriate work is shown, but one conceptual error is made.
or [2] Both triangles are graphed and labeled correctly, but no further correct work is shown.
[1] Appropriate work is shown, but one conceptual error and one computational, graphing, or labeling error are made.
or [1] Both triangles are graphed correctly, but no further correct work is shown.
or [1] $D'(-1,1)$, $E'(-1,5)$, $G'(-4,5)$, but no work is shown.
[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously incorrect procedure.

[5]