



Name

Score

Respond to the questions and show all steps.

|   |                            |
|---|----------------------------|
| <p>A triangle ABC has vertices A(1, 2), B(4, 1), and C(2, 5). Rotate triangle ABC <math>90^\circ</math> clockwise about the origin (0, 0). What are the coordinates of the vertices of the rotated triangle A'B'C'?</p>                         | <p>Show all steps here</p> |
| <p>A rectangle PQRS has vertices P(-3, 2), Q(1, 2), R(1, -1), and S(-3, -1). Rotate rectangle PQRS <math>180^\circ</math> about the origin (0, 0). What are the coordinates of the vertices of the rotated rectangle P'Q'R'S'?</p>              | <p>Show all steps here</p> |
| <p>A point D(5, -2) is rotated <math>270^\circ</math> counter-clockwise about the origin (0, 0). What are the coordinates of the rotated point D'?</p>  | <p>Show all steps here</p> |
| <p>A trapezoid TUVW has vertices T(0, 3), U(4, 3), V(3, 1), and W(1, 1). Rotate trapezoid TUVW <math>90^\circ</math> counter-clockwise about the origin (0, 0). What are the coordinates of the vertices of the rotated trapezoid T'U'V'W'?</p> | <p>Show all steps here</p> |
| <p>Point E(-6, 4) is rotated <math>90^\circ</math> clockwise about the point (2, 1). What are the coordinates of the rotated point E'?</p>  | <p>Show all steps here</p> |



Respond to the questions and show all steps.

$A'(2, -1), B'(1, -4), C'(5, -2)$

$P'(3, -2), Q'(-1, -2), R'(-1, 1), S'(3, 1)$

$D'(-2, -5)$

$T'(-3, 0), U'(-3, 4), V'(-1, 3), W'(-1, 1)$

$E'(5, 9)$