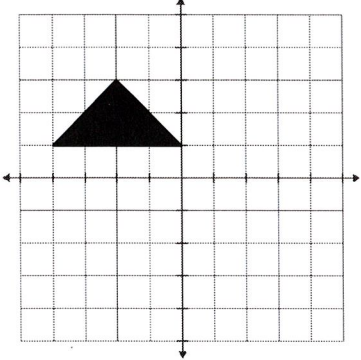
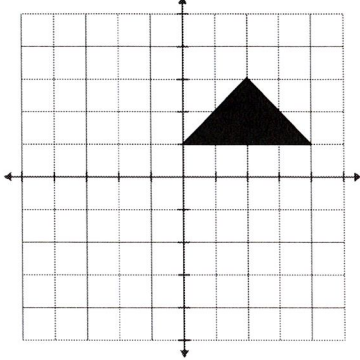
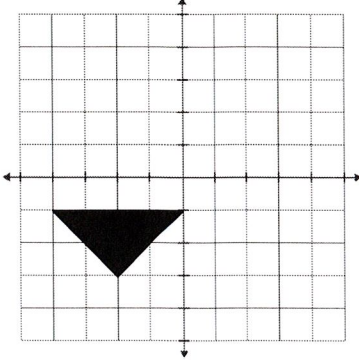
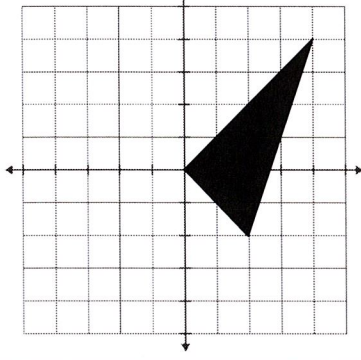
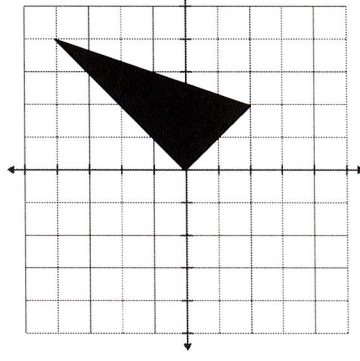
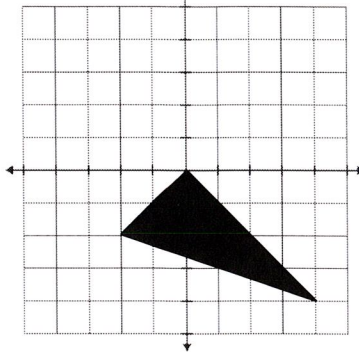
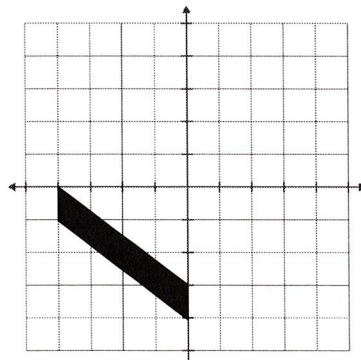
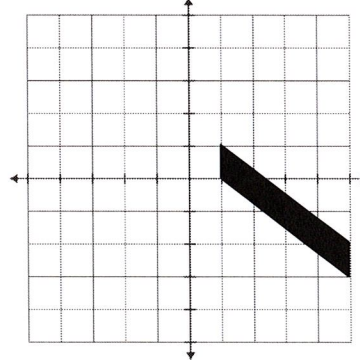
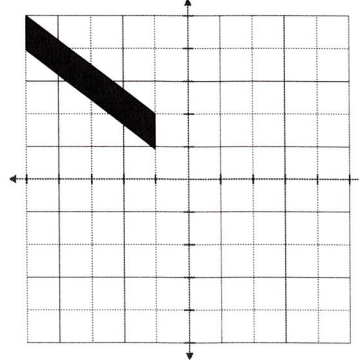
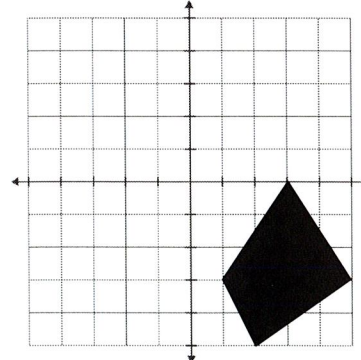
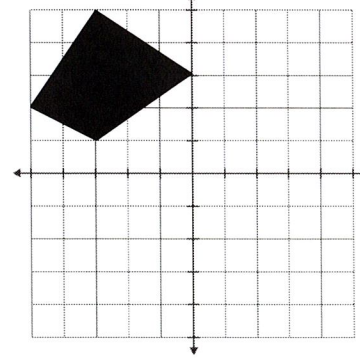
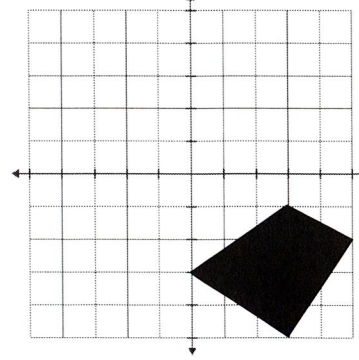


TRANSFORMATIONS

DIRECTIONS: Solve each problem. Find your answer in one of the answer columns. Find the problem number on the coloring page and color each section with the number the color that corresponds to your answer.

#	PROBLEM	ANSWER 1	ANSWER 2	ANSWER 3
For numbers 1 – 6, find the coordinates of the vertices after the given transformation(s). <i>Hint: Use graph paper.</i>				
1	Quadrilateral JKLM after a 180° rotation about the origin. $J(-4, 5), K(-1, 4), L(1, 2), M(-3, 2)$	$J'(4, -5), K'(1, -4),$ $L'(1, -2), M'(3, -2)$ BLUE	$J'(4, -5), K'(1, -4),$ $L'(-1, -2), M'(3, -2)$ YELLOW	$J'(5, -4), K'(4, -1),$ $L'(2, 1), M'(2, -3)$ ORANGE
2	Triangle DEF after a translation of 4 units right and 3 units up. $D(-5, -3), E(-3, -1), F(-2, -2)$	$D'(-5, 3), E'(-3, 1),$ $F'(-2, 2)$ ORANGE	$D'(-2, 1), E'(0, 3),$ $F'(1, 2)$ GREEN	$D'(-1, 0), E'(1, 2),$ $F'(2, 1)$ PURPLE
3	Quadrilateral BCDE after a translation of 5 units right and 1 unit down. $B(-5, 3), C(-4, 3), D(-2, 1), E(-4, 0)$	$B'(0, 2), C'(1, 2),$ $D'(3, 0), E'(1, -1)$ BLUE	$B'(0, 3), C'(1, 3),$ $D'(3, 1), E'(1, 0)$ YELLOW	$B'(3, 0), C'(3, 1),$ $D'(1, 3), E'(0, 1)$ ORANGE
4	Triangle JLK after a reflection across the y -axis. $J(3, 1), K(3, 4), L(5, 3)$	$J'(-3, 1), K'(-3, 4),$ $L'(-5, 3)$ GREEN	$J'(3, -1), K'(3, -4),$ $L'(5, -3)$ PURPLE	$J'(-3, -1), K'(-3, -4),$ $L'(-5, -3)$ BLUE
5	Triangle VWX after a 90° clockwise rotation about the origin. $V(0, -3), W(4, -1), X(3, -4)$	$V'(3, 0), W'(1, 4),$ $X'(4, 3)$ YELLOW	$V'(0, 3), W'(-4, -1),$ $X'(-3, -4)$ BLUE	$V'(-3, 0), W'(-1, -4),$ $X'(-4, -3)$ GREEN
6	Quadrilateral PQRS after a reflection across the x -axis. $P(-5, 3), Q(-4, 4), R(-2, 1), S(-4, 2)$	$P'(5, 3), Q'(4, 4),$ $R'(2, 1), S'(4, 2)$ BLUE	$P'(5, -3), Q'(4, -4),$ $R'(2, -1), S'(4, -2)$ ORANGE	$P'(-5, -3), Q'(-4, -4),$ $R'(-2, -1), S'(-4, -2)$ PURPLE

TRANSFORMATIONS COLORING PAGE

#	PROBLEM	ANSWER 1	ANSWER 2
7	<p>Reflect across the y-axis.</p> 	 <p>BLUE</p>	 <p>GREEN</p>
8	<p>Rotate 90° clockwise about the origin</p> 	 <p>PURPLE</p>	 <p>BLUE</p>
9	<p>Translate 1 unit left and 5 units up</p> 	 <p>ORANGE</p>	 <p>YELLOW</p>
10	<p>Reflected across the x-axis, then rotated 90° counterclockwise.</p> 	 <p>ORANGE</p>	 <p>YELLOW</p>

