



# 4.3 Puzzle Time

## What Did One Parallel Line Say To The Other Parallel Line?

A	B	C	D	E	F
G					

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

(1, 1) MEET	<p><b>Complete the sentence.</b></p> <p><b>A.</b> A _____ is a transformation in which a figure is turned about a fixed point.</p> <p><b>B.</b> When a point <math>(a, b)</math> is rotated counterclockwise about the origin for a rotation of <math>90^\circ</math>, <math>(a, b) \rightarrow (\rule{1cm}{0.4pt})</math>.</p> <p><b>C.</b> When a point <math>(a, b)</math> is rotated counterclockwise about the origin for a rotation of <math>180^\circ</math>, <math>(a, b) \rightarrow (\rule{1cm}{0.4pt})</math>.</p> <p><b>D.</b> When a point <math>(a, b)</math> is rotated counterclockwise about the origin for a rotation of <math>270^\circ</math>, <math>(a, b) \rightarrow (\rule{1cm}{0.4pt})</math>.</p> <p><b>Triangle ABC has vertices A(-3, 5), B(4, 3), and C(-1, 1). Find the vertex of the image after a <math>270^\circ</math> rotation about the origin.</b></p> <p><b>E.</b> <math>A'</math></p> <p><b>F.</b> <math>B'</math></p> <p><b>G.</b> <math>C'</math></p>	(-a, -a) STRAIGHT
symmetric AND		(-a, -b) SHAME
rotation WHAT		(5, 3) WILL
(a, b) DOWN		(-1, -1) NAMED
(3, -5) SKINNY		(-b, a) A
(3, -4) NEVER		(0, 0) DEEP
(b, -a) WE		(3, 4) LONG