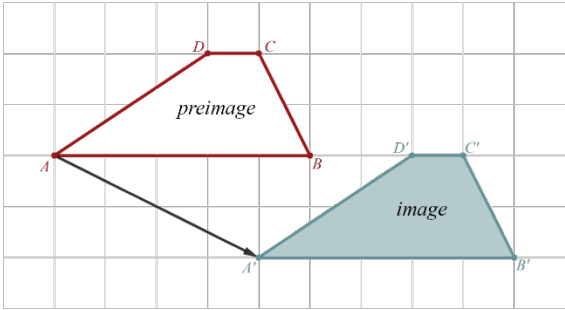


## TRANSFORMATION VOCABULARY

### Vocabulary

- **transformation:** a function (rule) that changes the figure in some way
- **preimage:** the original figure, before any transformation(s); the input
- **image:** the final figure; the result from applying the transformation(s); the output

	<b>Verbal Description</b>
	Translate the preimage 4 units right and 2 units down.
	<b>Algebraic Rule</b>
	$(x, y) \rightarrow (x + 4, y - 2)$
<b>Mapping Notation</b>	
$A \rightarrow A'$ <b>Read:</b> Point A maps to point A prime.	$Polygon ABCD \rightarrow Polygon A'B'C'D'$ <b>Read:</b> Polygon A, B, C, D maps to polygon A prime, B prime, C prime, D prime.