

# Fill in the Blanks

# Translations of Graphs

$y = f(x)$ is translated to...	Vector	Translation in words	$y = x^3$ is translated to...	$y = 3x + 4$ is translated to...	$(-2, 5)$ is translated to...
$y = f(x) - 5$		5 units in the direction of the negative y-axis		$y = 3x - 1$	
$y = f(x - 3)$					
		1 unit in the direction of the negative x-axis			
$y = f(x + 5) + 1$					
	$\begin{pmatrix} 0 \\ -2 \end{pmatrix}$				
			$y = (x - 4)^3$		
					$(-2, 11)$
					$(0, 0)$