

# Fill in the Blanks

# Three-Step Functions

Input	Function Machine			Output	Function
$x$ →	× 3 →	-1 →	÷ 4 →	$f(x)$	$f(x) = \frac{3x - 1}{4}$
$x$ →	+2 →	÷ 3 →	square root →	$f(x)$	
$x$ →	+3 →	square →	-5 →	$h(x)$	
$x$ →	square root →	→	+1 →	$f(x)$	$f(x) = 4\sqrt{x} + 1$
$x$ →	reciprocal →	→	→	$g(x)$	$g(x) = 2\left(\frac{1}{x} - 3\right)$
$x$ →	→	→	→	$f(x)$	$f(x) = \frac{1}{3x} - 1$
$x$ →	→	→	→		$f(x) = \left(\frac{x + 2}{3}\right)^2$
$x$ →	→	→	→		$g(x) = \frac{1}{4x - 3}$