



Fill In The Blanks...



Inverse Three-Step Functions

Question	Function Machines	Answer
$f(x) = \frac{2x + 3}{5}$ Find $f^{-1}(x)$	x → $\times 2$ → $+3$ → $\div 5$ → $f(x)$ $f^{-1}(x)$ ← [] ← [] ← [] ← x	$f^{-1}(x) =$
$f(x) = 4x^2 - 5$ Find $f^{-1}(x)$	x → $square$ → $\times 4$ → -5 → $f(x)$ $f^{-1}(x)$ ← $square\ root$ ← [] ← $+5$ ← x	$f^{-1}(x) =$
$f(x) = 2\sqrt{x} + 1$ Find $f^{-1}(x)$	x → [] → [] → [] → $f(x)$ $f^{-1}(x)$ ← [] ← [] ← [] ← x	$f^{-1}(x) =$
$f(x) = \left(\frac{x - 3}{2}\right)^2$ Find $f^{-1}(x)$	x → [] → [] → [] → $f(x)$ $f^{-1}(x)$ ← [] ← [] ← [] ← x	$f^{-1}(x) =$
$g(x) = \frac{4}{x} - 3$ Find $g^{-1}(x)$	x → [] → [] → [] → $g(x)$ $g^{-1}(x)$ ← [] ← [] ← [] ← x	$g^{-1}(x) =$