

a $f(x) = \frac{x+5}{x}$ Find $f(\frac{1}{2})$ <u>11</u> a fraction as the input	b $f(x) = x^2 - 2x$ Find $f(x+1)$ <u>$x^2 - 1$</u> an expression into a quadratic	c $f(x) = x^2 + 4$ Solve $f(x) = 13$ <u>$x = 3$ or $x = -3$</u> two inputs, one output	d $f(x) = 3x + 1$ and $g(x) = x - 5$ Solve $f(x) = g(x)$ <u>$x = -3$</u> two functions equal
e $f(x) = 2(x - 4)$ Find $f^{-1}(7)$ <u>7.5</u> the inverse at a value	f $f(x) = \frac{2x+1}{3}$ Find $f^{-1}(x)$ <u>$\frac{3x-1}{2}$</u> the inverse of a fraction	g $f(x) = \sqrt{x-1}$ Find $f^{-1}(x)$ <u>$x^2 + 1$</u> the inverse of a root	h $f(x) = x^2$ and $g(x) = 3x - 2$ Find $gf(x)$ <u>$3x^2 - 2$</u> gf: f first
i $f(x) = 2x + 1$ Solve $ff(x) = 19$ <u>$x = 4$</u> solving with a function twice	j $f(x) = 3x - 4$ Solve $f(x) = f^{-1}(x)$ <u>$x = 2$</u> a function equal to its inverse	k $f(x) = x^2$ and $g(x) = x + 1$ Solve $fg(x) = gf(x)$ <u>$x = 0$</u> two composites equal	l $f(x) = 2x + 3$ and $g(x) = x - 1$ Find $(fg)^{-1}(x)$ <u>$\frac{x-1}{2}$</u> the inverse of a composite

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