

FUNCTIONS COMPOSITE FUNCTIONS

Ref: G294. 5R1

A1	A2	A3
$f(x) = 2x - 5$, $g(x) = x^2 - 10$	$f(x) = x + 2$, $g(x) = \frac{1}{x - 3}$	$f(x) = 2x + 5$, $g(x) = x^2 - 25$
Find fg(4)	Find $fg(x)$	Solve $gf(x) = 0$
B1	B2	B3
$f(x) = \frac{1}{2}x + 4$, $g(x) = \frac{2x}{x+1}$	$f(x) = x + 4$, $g(x) = \frac{x}{2x - 5}$	$f(x) = \frac{2}{x}$, $g(x) = \frac{x+1}{x}$
work out $fg(-3)$	Find $gf(x)$	Solve $gf(a) = 3$
C1	C2	C3
$f(x) = \sqrt{x-1}$, $g(x) = \frac{1}{x+2}$	$f: x \mapsto 2x^2 + 1$, $g: x \mapsto \frac{2x}{x-1}$	$f(x) = x^2$, $g(x) = 2 + x$
Calculate gf(10)	Express the composite function gf in the form $gf.x \mapsto$	Solve the equation $fg(x) = g(x)$
D1	D2	D3
$f: x \mapsto 2x - 3$, $g: x \mapsto 1 + \sqrt{x}$	$f(x) = \frac{x-6}{2}$, $g(x) = \sqrt{x-4}$	$f(x) = x^2$, $g(x) = x - 3$
Calculate fg(6)	Express the function gf in the form $gf(x) =$ Give your answer as simply as possible.	Solve the equation $gf(x) = g^{-1}(x)$

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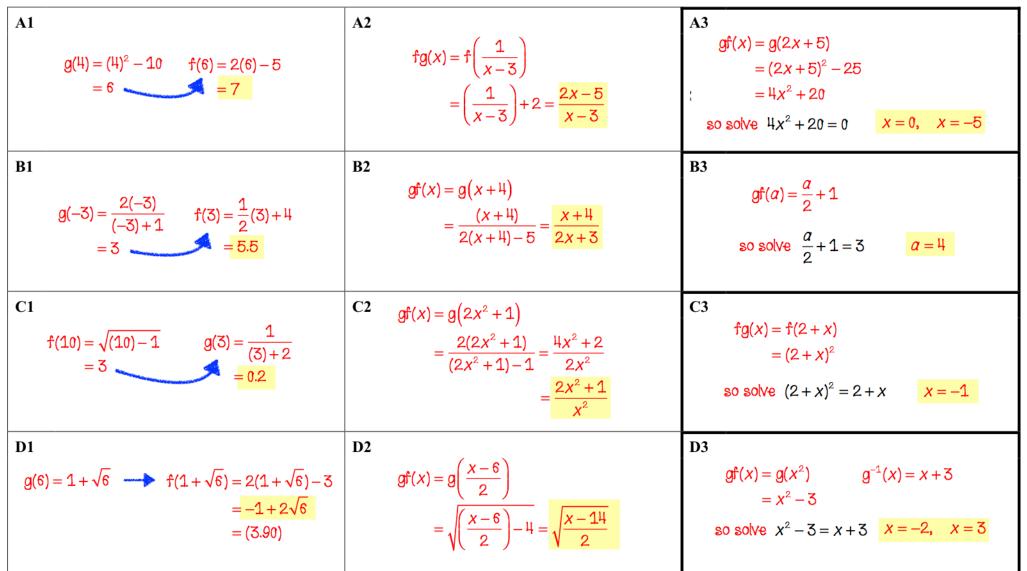






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