Match-Up — Composite Functions

1	$f(x) = x + 3 \quad g(x) = 2x$ Find $fg(x)$
2	$f(x) = 10 - x \quad g(x) = 3x + 1$ Find $gf(x)$
3	$f(x) = x + 3 \quad g(x) = 2x$ Find $gf(x)$
4	$f(x) = 2x - 1$ Find $ff(x)$
5	$f(x) = 10 - x \quad g(x) = 3x + 1$ Find $fg(x)$
6	$f(x) = x^2 \quad g(x) = x - 1$ Find $fg(x)$
7	$f(x) = 2x \quad g(x) = \frac{x}{x+1}$ Find $gf(x)$
8	$f(x) = x^2 \quad g(x) = x - 1$ Find $gf(x)$
9	$f(x) = 2x \quad g(x) = \frac{x}{x+1}$ Find $fg(x)$
10	$f(x) = x + 2 \quad g(x) = (x-1)^2$ Find $gf(x)$

A	$2x + 6$
B	$4x - 3$
C	$x^2 - 1$
D	$\frac{2x}{2x+1}$
E	$x^2 + 2x + 1$
F	$2x + 3$
G	$\frac{2x}{x+1}$
H	$x^2 - 2x + 1$
I	$31 - 3x$
J	$9 - 3x$

1	2	3	4	5	6	7	8	9	10
F	I	A	B	J	H	D	C	G	E