## **Functions Revision**

(a)	(b)	(c)	(d)
$f(x) = x^2 + 6$ Find $f(4)$	$g(x) = \frac{x}{x+5}$ Find $g(-1)$	$f(x) = 2(x - \frac{1}{2})$ Find $f(1.5)$	
(e)	(f)	(g)	(h)
$f(x) = \frac{3}{2x - 4}$ Solve $f(x) = 1$	$f(x) = x^2   g(x) = x$ Solve $f(x) = g(x)$	$g(x) = \frac{1}{x}$	that cannot
(i)	<b>(j)</b>		(k)
$f(x) = 4 - 3x   g(x) = \frac{1}{2}$ Find $gf(x)$ , simplifying your	Find the	g(x) = 4x - 7 e inverse function $g^{-1}(x)$	$f(x) = \frac{3x}{2x - 1}$ Find the inverse function $f^{-1}(x)$
<b>(I)</b>	(m)		(n)
$f(x) = \frac{3}{2x+1} \qquad g(x) = 5$ Solve $fg(x) = -1$		$f(x) = \frac{2x}{1 - 3x}$ olve $f(x) = f^{-1}(x)$	$g(x) = \frac{2x}{x+1}$ Find $gg(x)$