Question	Answer	Mark	Mark scheme	Additional guidance
16 (a)	–6	B1	cao	
(b)	4	M1	for g(1) = 5 – 3 × 1 (= 2) **and** a clear intention to find f("2") **or** for $\frac{12}{5-3\times1+1}$ **or** for stating fg, eg $\frac{12}{5-3x+1}$ oe	For reference $f(x) = \frac{12}{x+1}$ and $g(x) = 5 - 3x$
		A1	cao	Accept $\frac{4}{1}$
(c)	$\frac{1}{3}$	M1	for g^{-1} as $\frac{5-x}{3}$ oe **or** for $5 - 3x = 4$ **or** $g\left(\frac{1}{3}\right) = 5 - 1 = 4$	Could be shown in the form of a flowchart, which must show correct inverse operations. Allow g^{-1} and g to be in terms of y ie accept $\frac{5-y}{3}$ and $5 - 3y = 4$
		A1	for $\frac{1}{3}$ oe eg 0.33(3…)	