15	(a)		9	1	B1	allow $9\sqrt{3}$
	(b)	$\frac{21}{3-\sqrt{2}}\times\frac{3+\sqrt{2}}{3+\sqrt{2}}$ **or** $\frac{21}{3-\sqrt{2}}\times\frac{-3-\sqrt{2}}{-3-\sqrt{2}}$		3	M1	for explicitly multiplying the numerator and the denominator by $3+\sqrt{2}$ or $-3-\sqrt{2}$
		eg $\frac{21\left(3+\sqrt{2}\right)}{9-3\sqrt{2}+3\sqrt{2}-2}$ **or** $\frac{21\left(3+\sqrt{2}\right)}{3^2-2}$ **or** $\frac{21\left(3+\sqrt{2}\right)}{9-2}$ **or** $\frac{21\left(3+\sqrt{2}\right)}{7}$ **or** $\frac{63+21\sqrt{2}}{9-2}$ **or** $\frac{63+21\sqrt{2}}{7}$			M1	dep on M1 (denominator may be 4 terms which all need to be correct) $\frac{21}{3-\sqrt{2}}\times\frac{3+\sqrt{2}}{3+\sqrt{2}}=9+3\sqrt{2}$ scores M1M0
		Working required	$9+\sqrt{18}$		A1	dep on M2 SCB1 for $9+\sqrt{18}$ gained with no method marks awarded SCB2 for $9+\sqrt{18}$ gained if you would award 1st M1 but not 2nd M1 (total 2 marks)
						Total 4 marks

16	(a)		6	1	B1	cao
	(b)	$9-\sqrt{4x^2}\,(<0)$		3	M1	for substituting g(x) in f(x), allow incorrect inequality sign or = sign
		eg $9-2x(<0)$ **or** $9 < 2x$ **or** $81 < 4x^2$ **or** $9^2 < 4x^2$			M1	for removing the square root, allow incorrect inequality sign or = sign
		Working required	$x > \frac{9}{2}$		A1	(dep on M1) oe eg $x > 4.5$, $\frac{9}{2} < x$, $4.5 < x$
						Total 4 marks