17	e.g. $(V=)\ \frac{1}{2}\left(\frac{4}{3}\pi x^3\right)+\pi x^2(20-4x)$ **or** $(V=)\ \frac{2}{3}\pi x^3+20\pi x^2-4\pi x^3$		5	M1 for a correct expression
	e.g. $\frac{1}{3}\pi y=\frac{1}{2}\left(\frac{4}{3}\pi x^3\right)+\pi x^2(20-4x)$ **or** $\frac{1}{3}\pi y=\frac{2}{3}\pi x^3+20\pi x^2-4\pi x^3$			M1 for a correct equation
	$y=60x^2-10x^3$ oe			A1 for writing y in terms of x
	e.g. $\left(\frac{dy}{dx}=\right)120x-30x^2=0$ oe			M1 for differentiating their $ax^2 + bx^3$ and equating to 0
		320		A1 (dep on M3) cao
				Total 5 marks

18	e.g. $40+8\sqrt{x}-5\sqrt{x}-\sqrt{x}\sqrt{x}$ **or** $40+8\sqrt{x}-5\sqrt{x}-\left(\sqrt{x}\right)^2$ **or** $40+8\sqrt{x}-5\sqrt{x}-x$ **or** $40+3\sqrt{x}-x$		3	M1 for a correct expansion with at least 3 out of 4 terms correct oe or all 3 terms correct
		$x = 19$		A1 (dep on M1) for $x = 19$
		$y = 3$		B1 for $y = 3$
				Total 3 marks