19 (a)	$P = \frac{k}{y^2}$		3	M1	oe (the constant term, *k*, can be any other letter apart from *a* or *P* or *y*)
	eg $a = \frac{k}{4^2}$ **or** $k = 16a$			M1	oe
	Correct answer scores full marks (unless from obvious incorrect working)	$P = \frac{16a}{y^2}$		A1	oe eg $P = 16ay^{-2}$ or $P = \frac{4^2 a}{y^2}$
(b)	$\sqrt{"\frac{16a}{4a}"} = c\sqrt{a}$ oe eg $\frac{16a}{4a} = c^2 a$ or $4a = \frac{16a}{c^2 a}$ **or** $4a \times c^2 a = 16a$ **oe** **or** (when $P = 4a$) $y^2 = \frac{16a}{4a}$ **or** $y^2 = 4$ **or** $y = \sqrt{\frac{16a}{4a}} (= 2)$ oe		3	M1	ft a correct formula involving the constant term (*c* used here) and *a* **or** ft for an expression or value of y^2 or *y* given for when $P = 4a$
	$c = \sqrt{\frac{4}{a}}$ **or** $c = \frac{\pm 2}{\sqrt{a}}$ **or** $c = \frac{\pm 2\sqrt{a}}{a}$ oe allow the constant term squared eg $c^2 = \frac{16a}{4a^2} \left(= \frac{4}{a} \right)$			M1	(implies previous M1) a correct value, in terms of *a*, for the constant term or the constant term squared – need not be simplified
	Correct answer scores full marks (unless from obvious incorrect working)	$P = \frac{4a^2}{x}$		A1	oe eg $P = \frac{16a}{\frac{4x}{a}}$ or $P = \frac{16a^2}{4x}$
					Total 6 marks