18	(a)			4	B1	$b = 14$
		(Gradient AB =) $\frac{12}{5}$ oe or eg $\frac{10--2}{1--4}$ oe			M1	For the gradient of AB
		(Gradient BC =) $-\frac{5}{12}$ oe			M1	Ft correct use of $m_1 \times m_2 = -1$ for *their* gradient of AB or $a = 2.5$ or $c = -9.5$
			$a = 2.5$, $c = -9.5$		A1	for $a = 2.5$ and $c = -9.5$
	(b)	$(AB =) \sqrt{(1--4)^2 + (10--2)^2}$ $(= \sqrt{5^2 + 12^2}\ (=13))$		3	M1	
		$(BC =) \sqrt{(19-1)^2 + (10-2.5)^2}$ $(= \sqrt{18^2 + 7.5^2}\ (= 19.5))$ **or** $\sqrt{(19-1)^2 + (10-\text{their } a)^2}$ **or** 1.5 × "13"			M1	ft their value of a
			65		A1	
						Total 7 marks