Question	Answer	Marks	Guidance
(a)	Equation of BC is $\{y=\}\{2\}\{-3x\}$	**B2, 1, 0**	OE forms $y+4=-3(x-2)$ or $y-2=-3(x-0)$.
		2	
(b)	$(x-2)^2+(2-3x+4)^2=20$	***M1**	OE Sub line equation into equation of circle to eliminate y.
	$10(x-2)^2=20$ or $[10](x^2-4x+2)[=0]$	**A1**	OE Accept $(10x^2-40x+20)$.
	$x-2=[\pm]\sqrt{2}$ or $x=\dfrac{4[\pm]\sqrt{16-8}}{2}$	**DM1**	Correctly solving *their* quadratic.
	$x=2-\sqrt{2}$	**A1**	OE only solution. Answer only **SC B1** If DM1 not scored.
	$y=3\sqrt{2}-4$	**A1**	OE only solution. Answer only **SC B1** If DM1 not scored.
		5	