Question	Answer	Marks	Partial Marks
6(b)	Midpoint $\left(-\frac{3}{5},\ 3\right)$	**B1**	
	Gradient 5	**B1**	
	$y-3=-\frac{1}{5}\left(x+\frac{3}{5}\right)$	**M1**	Attempt at perp bisector using *their* midpoint and perp gradient
	$x-3=-\frac{1}{5}\left(x+\frac{3}{5}\right)$	**M1**	For use of $y=x$ and attempt to solve
	$\left(\frac{12}{5},\ \frac{12}{5}\right)$	**A1**	
7(a)	0.8	**B1**	
7(b)	Sector area = $\frac{1}{2}12^2(0.8)$ 57.6	**B1**	Allow unsimplified
	$\tan 0.4=\frac{AM}{12}$ $AM=12\tan 0.4$ 5.074	**M1**	Attempt at AM using *their* $\frac{\theta}{2}$ Allow unsimplified
	Area of triangle $=\frac{1}{2}(5.074\times 2)\times 12$ 60.88	**M1**	Area of triangle using *their AM*, allow unsimplified
	Shaded area 3.28	**A1**	
7(c)	$\sin 0.4=\frac{AM}{OA}$ $OA=\frac{5.074}{\sin 0.4}$ 13.03	**M1**	Attempt to find *OA* using *their* $\frac{\theta}{2}$ and *their AM*
	Perimeter $=2(1.03)+9.6+2(5.074)$	**M1**	Allow if using *their* $\frac{\theta}{2}$ and *their CM*
	Perimeter = 21.8	**A1**	
8(a)	$\frac{3(2x+3)+3(2x-3)}{4x^2-9}$	**M1**	Must see for M1
	$\frac{12x}{4x^2-9}$	**A1**	