

6	(i)	$R = 25$ $\tan^{-1}\left(\frac{24}{7}\right)$ or $\sin^{-1}\left(\frac{24}{25}\right)$ or $\cos^{-1}\left(\frac{7}{25}\right)$ $25\cos(x + 1.29)$	B1 M1 A1 [3]	1.1 1.1 1.1	 $\alpha = 1.28700221759$ rounded to 2 or more sf	73.739795° rounded to 2 or more sf may imply M1A0 allow A1 for α found to 2 or more sf
6	(ii)	$12 \pm \text{their } 25$ $-13 \leq f(x) \leq 37$	M1 A1 [2]	3.1a 1.1	or one of -13 and 37 identified allow eg from -13 to 37 inclusive	A0 if inequality is strict