\ - ~ ,

3	The reflex	angle 6	is such	that cos A	- l-	where 0	-k-1
J	THE TEHEX	angie u	18 Sucii	mai cos o	– κ,	where 0	< \(\ \ \ \ 1.

(i) Find an expression, in terms of k, for

(a)
$$\sin \theta$$
, [2]

(b)
$$\tan \theta$$
. [1]

(ii) Explain why $\sin 2\theta$ is negative for 0 < k < 1. [2]