	It is given that $oldsymbol{eta}$ is an angle between $90^\circ$ and $180^\circ$ such that $\sinoldsymbol{eta}=a$ .
	Express $\tan^2 \beta - 3 \sin \beta \cos \beta$ in terms of $a$ . [3]

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			11			
(b)	Solve the equation	$\sin^2\theta + 2\cos^2\theta$	$=4\sin\theta+3$	for $0^{\circ} < \theta < 36$	60°.	

[5]