## Question 2 (6 marks)

<i>(</i> )	<i>/</i> ···			
(a)	(1)	Express $1+i$	in exact	polar form.

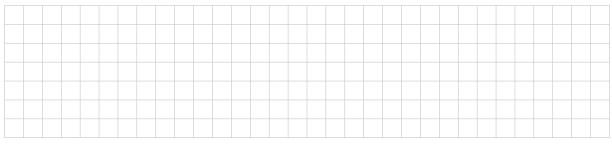
(1 mark)

(ii) Express  $\sqrt{3} - i$  in exact polar form.

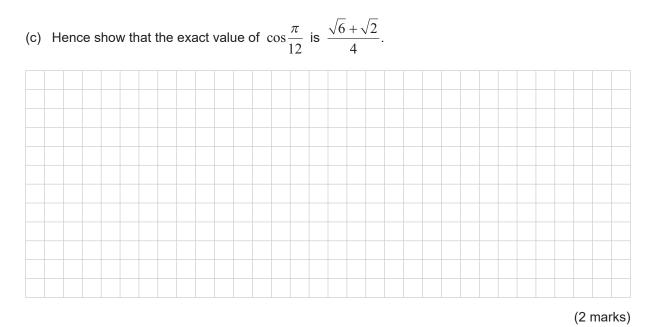
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(1 mark)

(b) Use your answers to part (a) to show that  $(1+i)(\sqrt{3}-i) = 2\sqrt{2} \operatorname{cis} \frac{\pi}{12}$ .



(2 marks)



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