



National Junior College
2016 – 2017 H2 Mathematics
Complex Numbers

Assignment Solutions

Qn	Solution
1	<p>After considering the polar form, what can you say about n?</p>
2(a)	<p>$w = 5 + 2i$</p> <p>$z = 5i$</p>

2(b)

	$k = -\sqrt{3}$
Qn	Solution
4(ii)	$k = -\sqrt{5}$ or $\sqrt{5}$
4(ii)	<div></div> $\Rightarrow z = \pm\sqrt{5}i, 2 \pm i$
4(iii) (a)	<div></div> $\Rightarrow w = \pm\sqrt{5}, \pm 1 - 2i$
4(iii) (b)	<div></div> $\Rightarrow v = \pm \frac{i}{\sqrt{5}}, \frac{1}{5}(2 \pm i)$