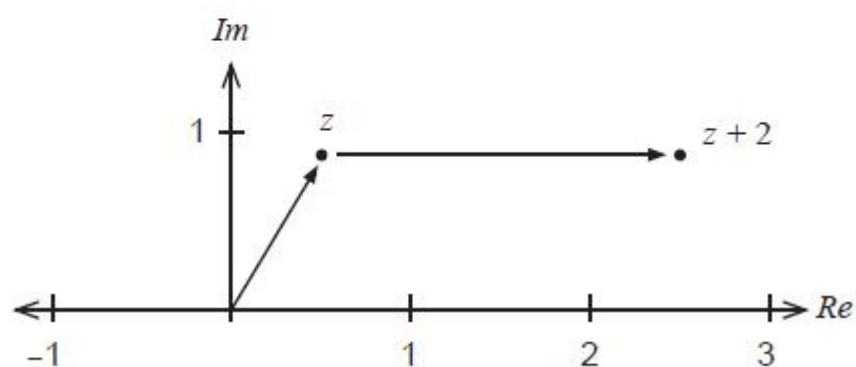


Question 1**(4 marks)**

The Argand diagram below shows the complex numbers z and $z+2$ where $z = \operatorname{cis}\left(\frac{\pi}{3}\right)$.



Determine the exact value for:

(a) $\operatorname{Arg}(-z)$. (1 mark)

(b) $|z+2|$. (3 marks)