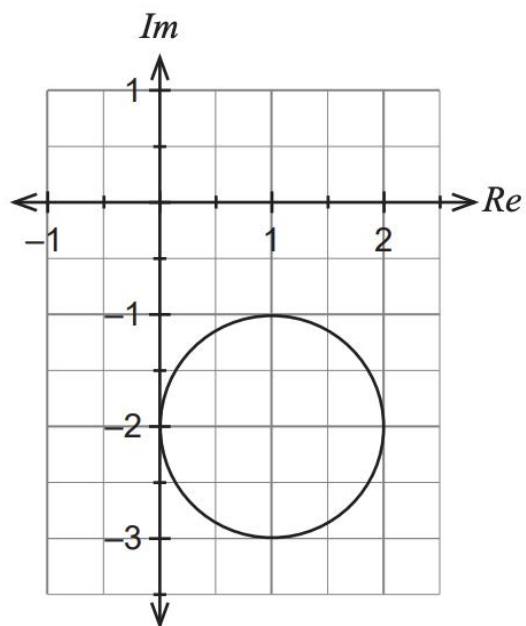


The sketch in Question 11 part (a) is repeated below, with only the circle indicated.



- (c) For the locus from part (a), determine the maximum value for  $\arg(z)$  correct to 0.01, where  $0 \leq \arg(z) < 2\pi$ . (3 marks)

(b)

(2 marks)

