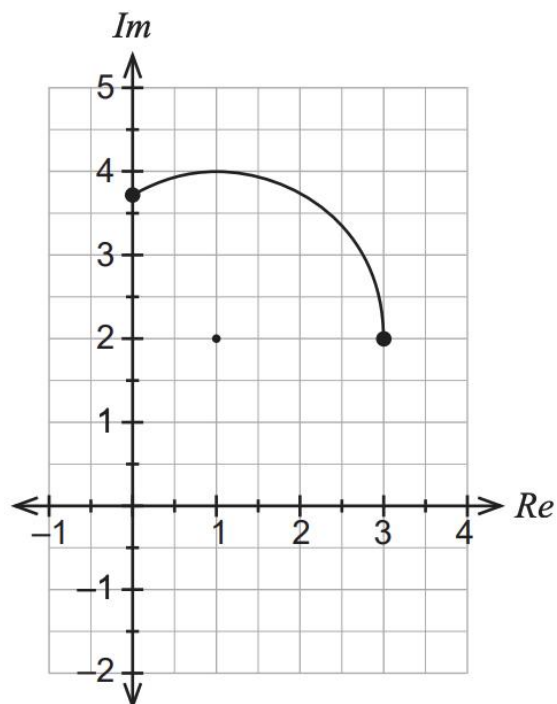


Question 10

(7 marks)

- (a) The sketch of the locus of a complex number z has been shown below. Write equations or inequalities in terms of z (without using $x = \text{Re}(z)$ or $y = \text{Im}(z)$) for the indicated locus. (4 marks)



- (b) Sketch the locus of the equation $|z + 2| = |z - i| + \sqrt{5}$ in the Argand diagram below. (3 marks)

