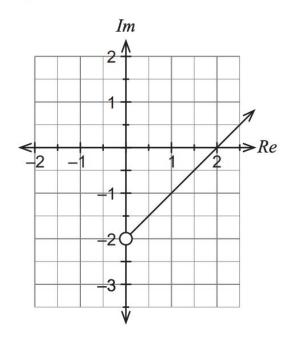
The sketch of the locus of a complex number z = x + iy is shown below.



- (a) Given that the equation for the above locus is written as $Arg(z-z_0)=k\pi$, determine the value of the constants z_0 and k. (2 marks)
- (b) Determine the minimum value for |z-i| as an exact value. (3 marks)