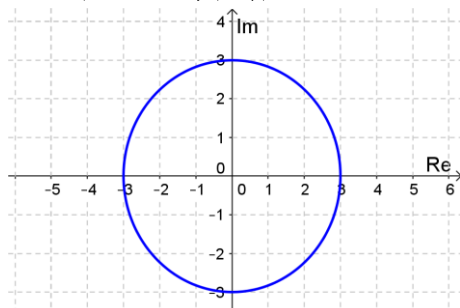


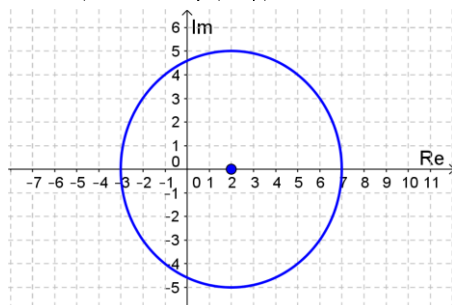
## Section 2: Loci in the complex plane

## Solutions to Exercise level 1

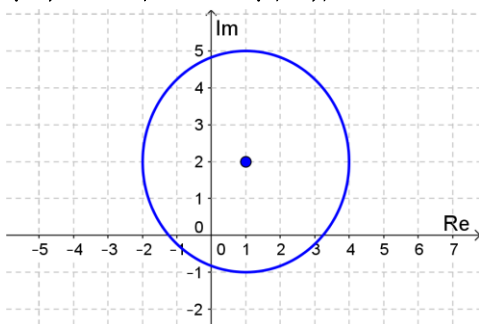
1. (i) Circle, centre
- $(0, 0)$
- , radius 3



- (ii) Circle, centre
- $(2, 0)$
- , radius 5

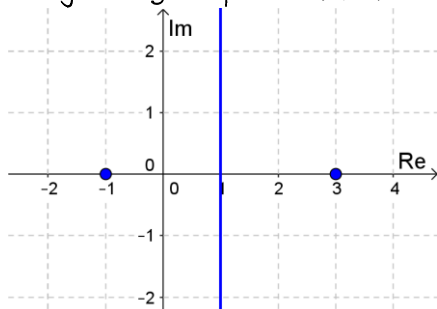


- (iii) Circle, centre
- $(1, 2)$
- , radius 3



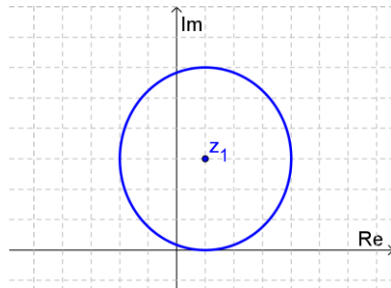
- (iv)
- $|z + 1| = |z - 3|$

This is the perpendicular bisector of a line joining the points  $(3, 0)$  and  $(-1, 0)$ .

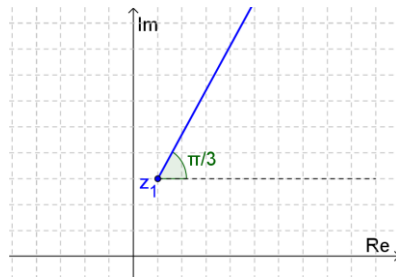


# Edexcel AS FM Complex numbers 2 Exercise solns

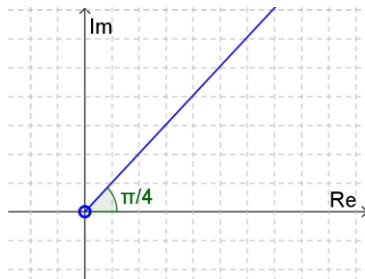
2. (i)



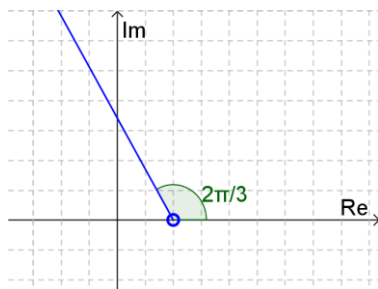
(ii)



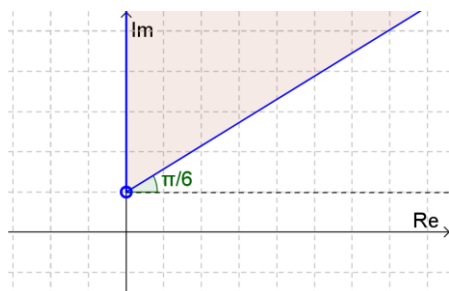
3. (i)



(ii)

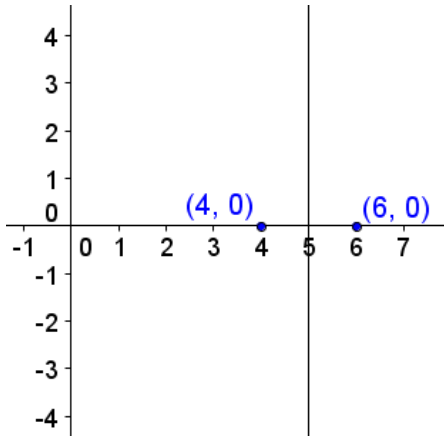


(iii)

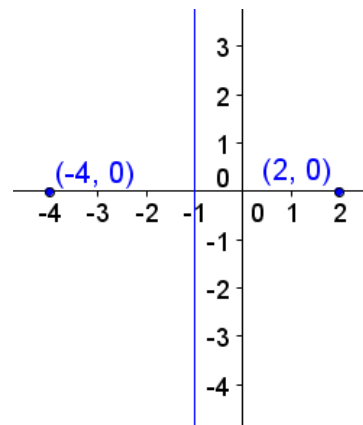


# Edexcel AS FM Complex numbers 2 Exercise solns

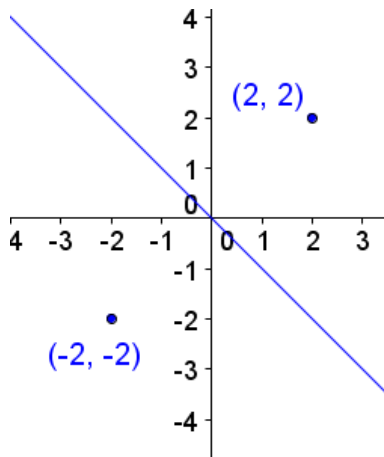
4. (i)



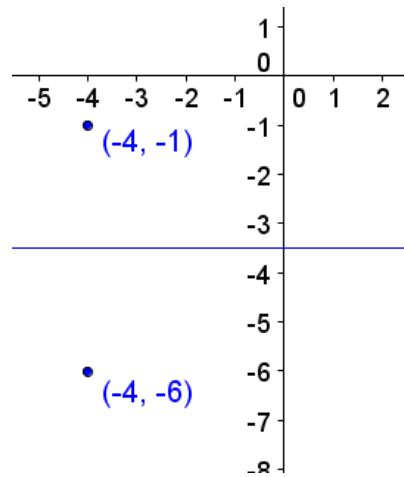
(ii)



(iii)



(iv)



5.

