**3.5 Apply the algebra of complex numbers in solving problems.**

**Assessment Schedule**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **One** |  | **Achieved** | **Merit** | **Excellence** |
| a |  | Correct solution |  |  |
| b |  | Correct  solution |  |  |
| c | or |  | Correct solution |  |
| d | and | Correctly solved  and | Correct solution |  |
| e | Substitute into line 1 equation and rearranged  Divide by 3 and rearranged to the given solution | Correct substitution both required | Correctly substituted into line 1 for b and simplified | Correct solution  Minor error E7 |
| **Two** | **Expected Coverage** | **Achievement** | **Merit** | **Excellence** |
| a |  | Correct solution |  |  |
| b |  | Correct solution |  |  |
| c |  |  | Correct proof.  MUST show the method |  |
| d |  | 3Correct solution | Correct solution |  |
| e | + | Line 1 correct | Line 2 Correct | E7 line 3  Correct  E8 Answer with logical working |
| **Three** |  |  |  |  |
| a |  | Correct solution |  |  |
| b |  | Both Correct |  |  |
| c |  | 1 correct solution | Correct solution with correct method |  |
| d |  | Partly correct solution  Check on the method | Correct solution with correct method |  |
| e | Circle with radius 1 and centre (0,0) |  | Correct first step | E7 step2  E8 correct solution with method |
| N0 | **No** response or evidence |  |  |  |
| N1 | **One** correct algebraic step towards a solution |  |  |  |
| N2 | **One** correct achievement criteria |  |  |  |
| A3 | **Two** correct achievement criteria |  |  |  |
| A4 | **Three** correct achievement criteria |  |  |  |
| M5 | **One** correct Merit criteria |  |  |  |
| M6 | **Two** correct Merit criteria |  |  |  |
| E7 | **All** of excellence criteria with **minor** error ignored |  |  |  |
| E8 | **All** of excellence criteria **correct** |  |  |  |
| **Final** | **Judgement** | **8-12** | **13-19** | **20-24** |