

| Q    | Marking instructions | AO   | Marks | Typical solution |
|------|----------------------|------|-------|------------------|
| 7(a) | States 7             | 1.1b | B1    | 7                |
|      | Subtotal             |      | 1     |                  |

| Q    | Marking instructions                                                                                                 | AO   | Marks | Typical solution |
|------|----------------------------------------------------------------------------------------------------------------------|------|-------|------------------|
| 7(b) | Obtains $b <$ their radius from part (a) or $b >$ their negative radius from part (a), condone non-strict inequality | 2.2a | M1    | $-7 < b < 7$     |
|      | Obtains $-7 < b < 7$<br>FT their radius from part (a)                                                                | 2.2a | A1F   |                  |
|      | Subtotal                                                                                                             |      | 2     |                  |

|  |                  |  |   |  |
|--|------------------|--|---|--|
|  | Question 7 Total |  | 3 |  |
|--|------------------|--|---|--|