

| Question |   |                                                                                                                                                                                                                                                                                                 | Marks |
|----------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 01       | 1 | <p>Mark is for AO2 (apply)</p> <p>4<br/>//<br/><math>\sqrt{4^2+0^2}</math>;</p>                                                                                                                                                                                                                 | 1     |
| 01       | 2 | <p>All marks AO2 (apply)</p> <p>2 marks: 16</p> <p>If final answer is incorrect then award a maximum of 1 mark for working:</p> <p>1 mark: for either multiplying 4 by 4 or multiplying 3 by 0<br/>1 mark: for adding together the sum of two (incorrect) products</p>                          | 2     |
| 01       | 3 | <p>All marks AO2 (analyse)</p> <p>The angle will still be the same; <b>A.</b> the direction will not change</p> <p>The magnitude will be doubled // the magnitude will now be 10;</p>                                                                                                           | 2     |
| 01       | 4 | <p>All marks AO2 (analyse)</p> <p>The angle will be <math>180 - c</math> // the angle will be <math>360 - 180 - c</math> // the angle will be 143.13;</p> <p><b>A.</b> the direction of <b>a</b> will be the opposite of its current direction</p> <p>The magnitude will still be the same;</p> | 2     |