

## Q1. (2020)

| Q  | Answer                                                                                                                                                                                                                                                                                         | Mark     | Comments |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|
| 31 | $(4c \Rightarrow \begin{pmatrix} 16 \\ 36 \end{pmatrix})$<br>or<br>$(3d \Rightarrow \begin{pmatrix} 6 \\ -15 \end{pmatrix})$<br>or<br>$(\text{answer} \Rightarrow \begin{pmatrix} 22 \\ \dots \end{pmatrix})$<br>or<br>$(\text{answer} \Rightarrow \begin{pmatrix} \dots \\ 21 \end{pmatrix})$ | M1       |          |
|    | $\begin{pmatrix} 22 \\ 21 \end{pmatrix}$                                                                                                                                                                                                                                                       | A1       |          |
|    | <b>Additional Guidance</b>                                                                                                                                                                                                                                                                     |          |          |
|    | Condone missing brackets and divisor lines for M mark                                                                                                                                                                                                                                          |          |          |
|    | Must see $\begin{pmatrix} 22 \\ 21 \end{pmatrix}$ to award the A mark, condone divisor line                                                                                                                                                                                                    |          |          |
|    | Condone vectors written as coordinates<br>eg $(16, 36)$<br>eg $(22, \dots)$                                                                                                                                                                                                                    | M1<br>M1 |          |
|    | Allow $16 \ 36$ or $6 \ -15$                                                                                                                                                                                                                                                                   | M1       |          |
|    | $36 \ 16$ or $-15 \ 6$                                                                                                                                                                                                                                                                         | M0       |          |
|    | 22 not indicated as $x$ component or 21 not indicated as $y$ component without other work for M1                                                                                                                                                                                               | M0       |          |