|  |  |
| --- | --- |
| (a) On the grid, reflect triangle **P** in the *y*-axis.  Label the new shape, **Q.**  **(1)**  The line *AB* is drawn on the grid.  (b) On the grid, reflect triangle **P** in the line *AB*.  Label the new shape, **R.**  **(1)**  **(Total 2 marks)** | (a) On the grid, reflect triangle **P** in the *y*-axis.  Label the new shape, **Q.**  **(1)**  The line *AB* is drawn on the grid.  (b) On the grid, reflect triangle **P** in the line *AB*.  Label the new shape, **R.**  **(1)**  **(Total 2 marks)** |
| (a) On the grid, reflect triangle **P** in the *y*-axis.  Label the new shape, **Q.**  **(1)**  The line *AB* is drawn on the grid.  (b) On the grid, reflect triangle **P** in the line *AB*.  Label the new shape, **R.**  **(1)**  **(Total 2 marks)** | (a) On the grid, reflect triangle **P** in the *y*-axis.  Label the new shape, **Q.**  **(1)**  The line *AB* is drawn on the grid.  (b) On the grid, reflect triangle **P** in the line *AB*.  Label the new shape, **R.**  **(1)**  **(Total 2 marks)** |
| Rotate triangle T through 90° clockwise about the point (2, 1).  **(Total 2 marks)** | Rotate triangle T through 90° clockwise about the point (2, 1).  **(Total 2 marks)** |
| Rotate triangle T through 90° clockwise about the point (2, 1).  **(Total 2 marks)** | Rotate triangle T through 90° clockwise about the point (2, 1).  **(Total 2 marks)** |
| Translate the triangle by the vector    **(Total 2 marks)** | Translate the triangle by the vector    **(Total 2 marks)** |
| Translate the triangle by the vector    **(Total 2 marks)** | Translate the triangle by the vector    **(Total 2 marks)** |
| Enlarge the shaded triangle by a scale factor 2, centre 0.  **(Total 3 marks)** | Enlarge the shaded triangle by a scale factor 2, centre 0.  **(Total 3 marks)** |
| Enlarge the shaded triangle by a scale factor 2, centre 0.  **(Total 3 marks)** | Enlarge the shaded triangle by a scale factor 2, centre 0.  **(Total 3 marks)** |
| Triangle **A** and triangle **B** have been drawn on the grid.  Describe fully the single transformation which will map triangle **A** onto triangle **B**.  ………………………………………………………………………………………  ………………………………………………………………………………………  **(Total 2 marks)** | Triangle **A** and triangle **B** have been drawn on the grid.  Describe fully the single transformation which will map triangle **A** onto triangle **B**.  ………………………………………………………………………………………  ………………………………………………………………………………………  **(Total 2 marks)** |
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| The diagram shows a regular hexagon OABCDE.    = a  = b. M is the midpoint of OE. N is the midpoint of AB.  (a)  Find  in terms of a and/or b.  = ...........................................................  **(3)**  (b)  Describe fully what your answer to part (a) shows about the lines OA and MN.  ………………………………………………………………………………………  ………………………………………………………………………………………  (**2)**  **(Total for question = 5 marks)** | The diagram shows a regular hexagon OABCDE.    = a  = b. M is the midpoint of OE. N is the midpoint of AB.  (a)  Find  in terms of a and/or b.  = ...........................................................  **(3)**  (b)  Describe fully what your answer to part (a) shows about the lines OA and MN.  ………………………………………………………………………………………  ………………………………………………………………………………………  (**2)**  **(Total for question = 5 marks)** |
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