1. The shape ABCD has corners at the following coördinates:

A (2, 3) B (4, 2) C (6, 1) D (4, 3)

(b) Apply an enlargement factor of 2.5 to the shape ABCDE, from a focus at the origin, to produce the shape EFGH. Write the coördinates of the corners here:

$$E(,) F(,) G(,) H(,)$$
 (2)

(c) Apply an enlargement factor of -1.5 to the shape ABCDE, from a focus at the point (1, 2), to produce the shape WXYZ. Write the coördinates of the corners here:

W(,) X(,) Y(,) Z(,) (4)

(d) Reflect the shape EFGH in the *x* axis, to produce the shape JKLM. Write the coördinates of the corners here:

J(,) K(,) L(,) M(,) (2)

(e) Reflect the shape JKLM in the *y* axis, to produce the shape PQRS.

$$P(, ,) Q(, ,) R(, ,) S(, ,)$$
 (2)

(f) Fully describe the single transformation which would move ABCD to PQRS:

(g) Apply the translation vector $\begin{pmatrix} -3 \cdot 4 \\ 1 \cdot 7 \end{pmatrix}$ to shape ABCDE. Write the resulting coördinates here:

$$(,,)(,,)(,,)(,,)(,)$$
 (3)