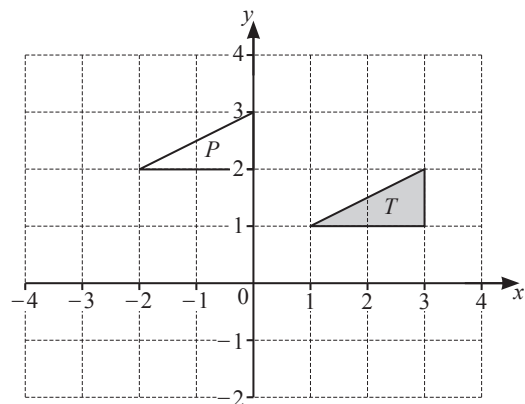


5

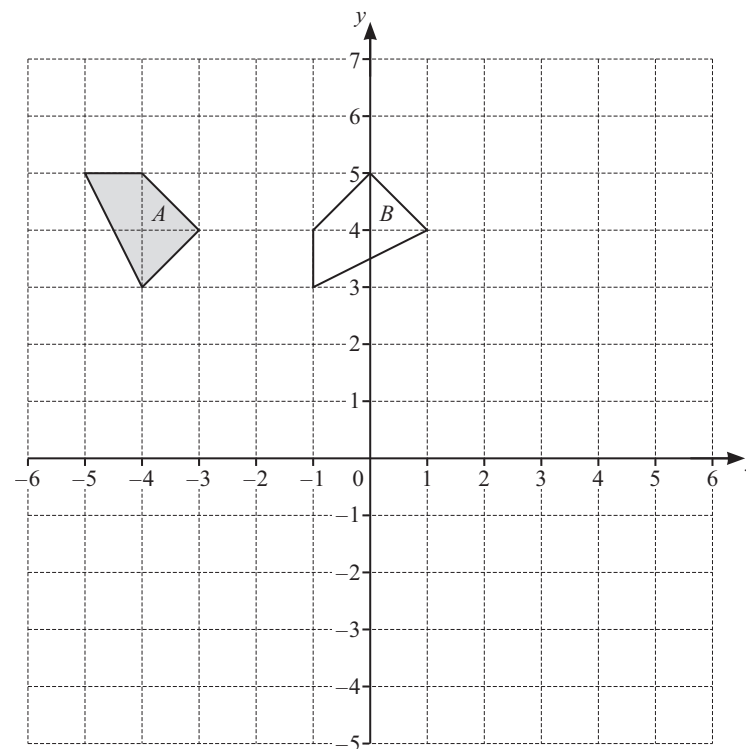


- (a) Describe fully the **single** transformation that maps triangle T onto triangle P .

.....
 [2]

- (b) Draw the image of triangle T after an enlargement of scale factor 2, centre $(3, 3)$. [2]

8



- (a) On the diagram, draw the image of

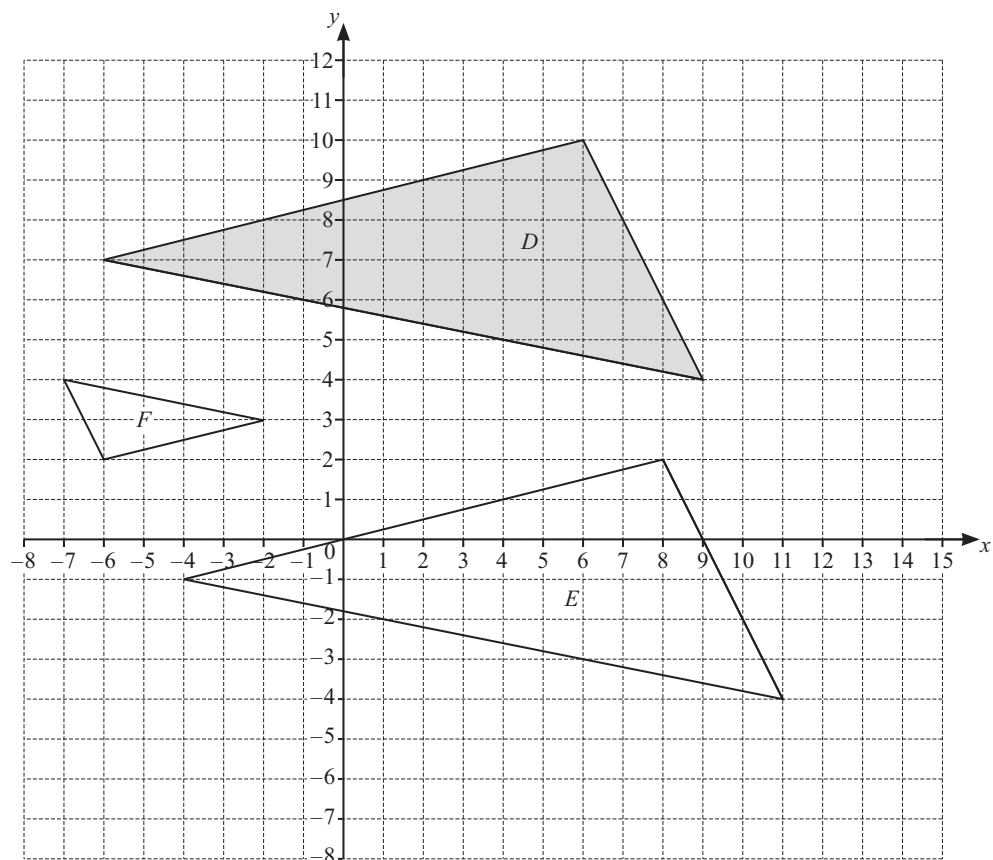
- (i) shape A after a translation by the vector $\begin{pmatrix} 1 \\ -7 \end{pmatrix}$ [2]

- (ii) shape A after a reflection in the line $y = x + 1$. [3]

- (b) Describe fully the **single** transformation that maps shape A onto shape B .

.....
 [3]

7



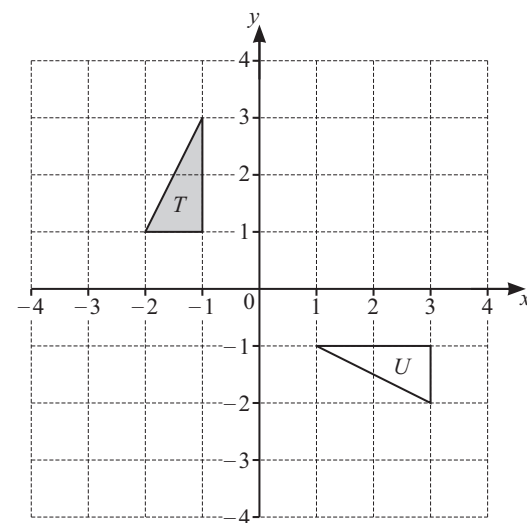
- (a) Describe fully the **single** transformation that maps triangle *D* onto triangle *E*.

.....
 [2]

- (b) Describe fully the **single** transformation that maps triangle *D* onto triangle *F*.

.....
 [3]

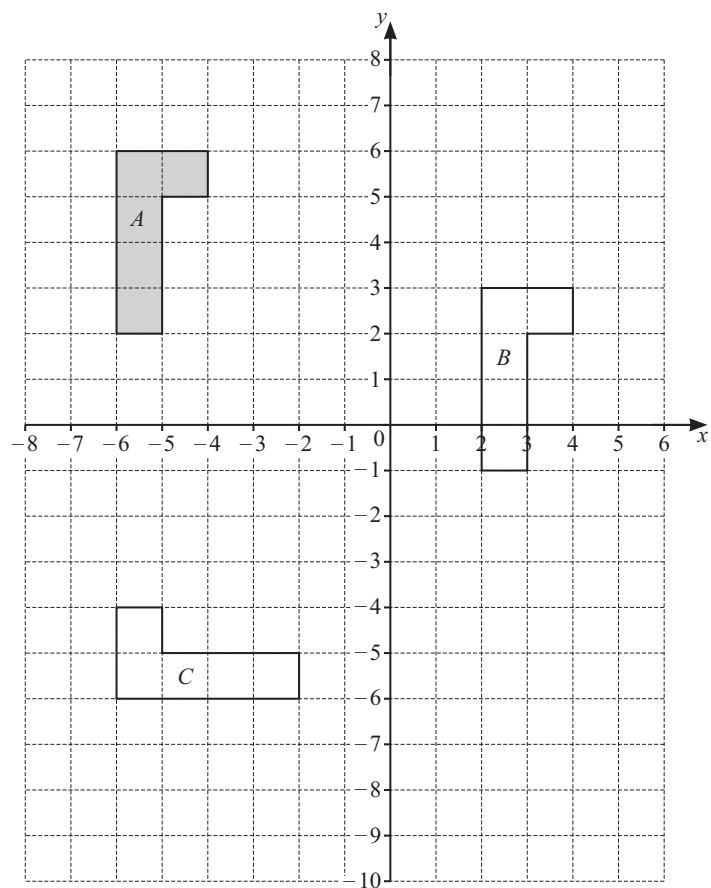
5



- (a) Translate triangle *T* by the vector $\begin{pmatrix} 0 \\ -2 \end{pmatrix}$. [1]

- (b) Describe fully the **single** transformation that maps triangle *T* onto triangle *U*.

.....
 [3]



(a) Describe fully the **single** transformation that maps

(i) shape A onto shape B

.....
..... [2]

(ii) shape A onto shape C .

.....
..... [3]

(b) On the grid, draw the image of shape A after a reflection in the line $x = -2$. [2]