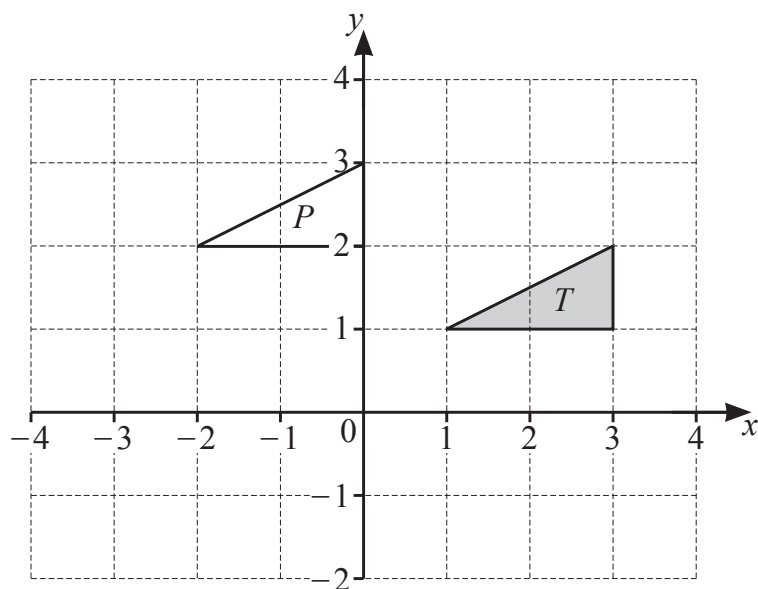




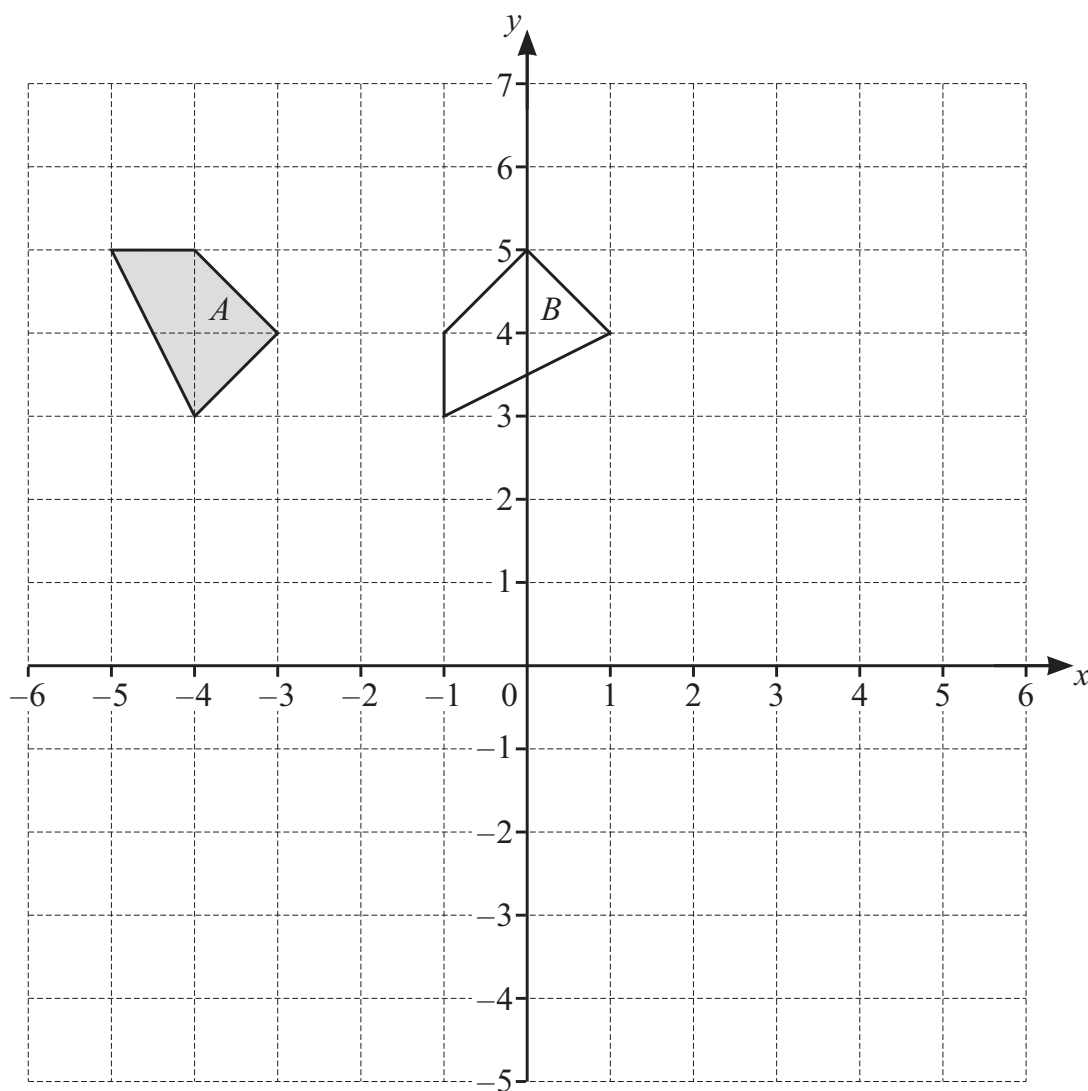
- (a) Describe fully the **single** transformation that maps triangle T onto triangle P .

.....

..... [2]

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

[2]



(a) On the diagram, draw the image of

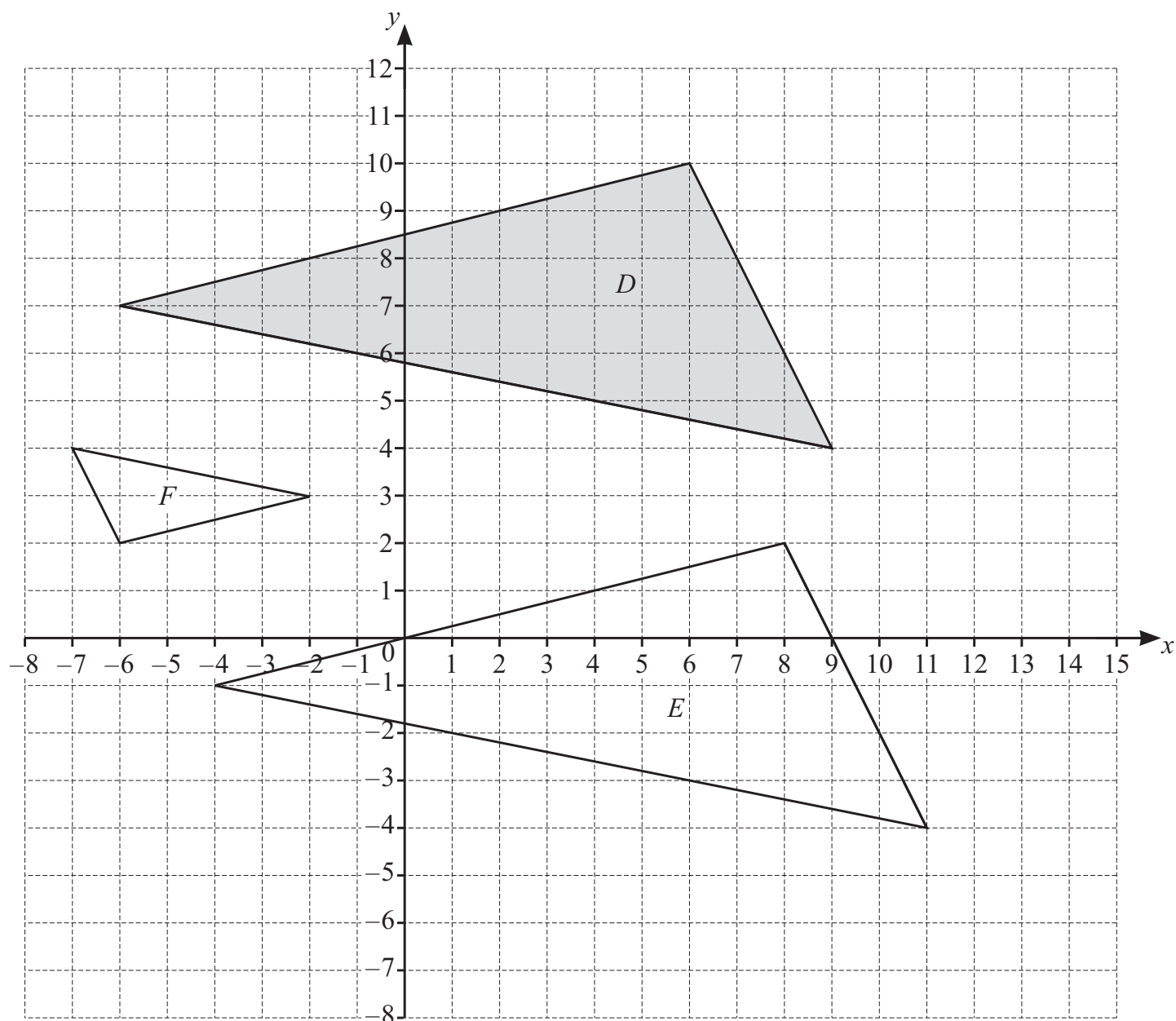
(i) shape A after a translation by the vector $\begin{pmatrix} 1 \\ -7 \end{pmatrix}$ [2]

(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]

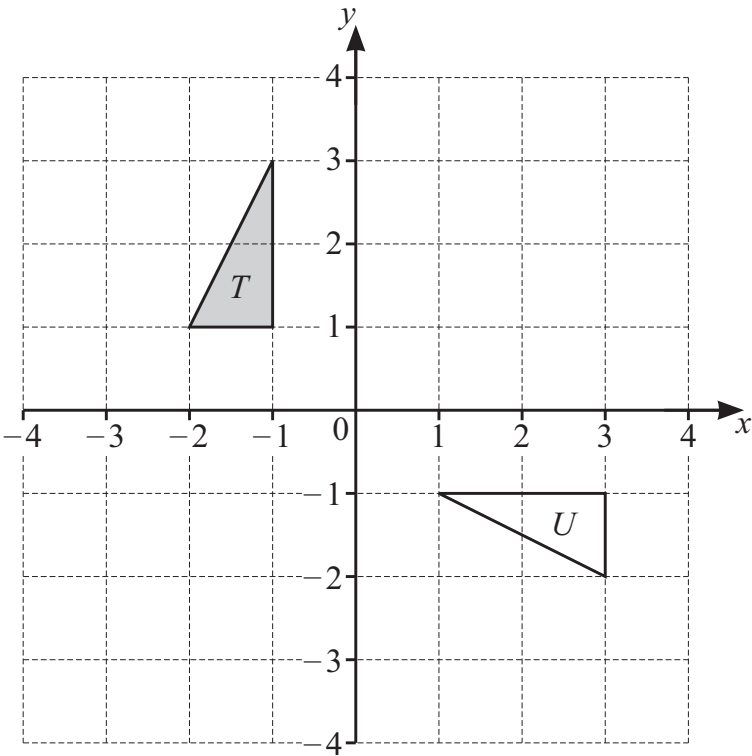


(a) Describe fully the **single** transformation that maps triangle *D* onto triangle *E*.

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

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

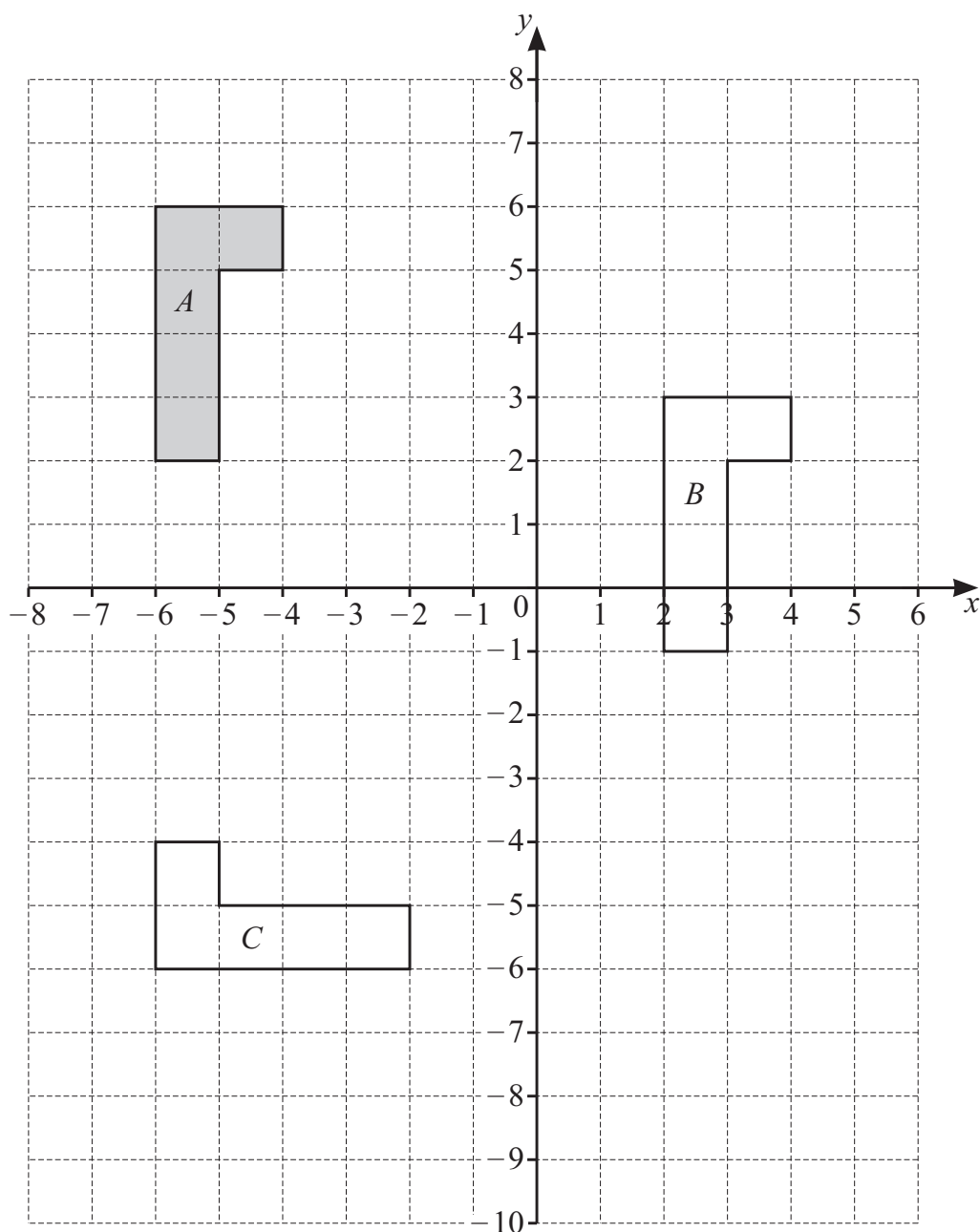
.....
..... [3]



- (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]