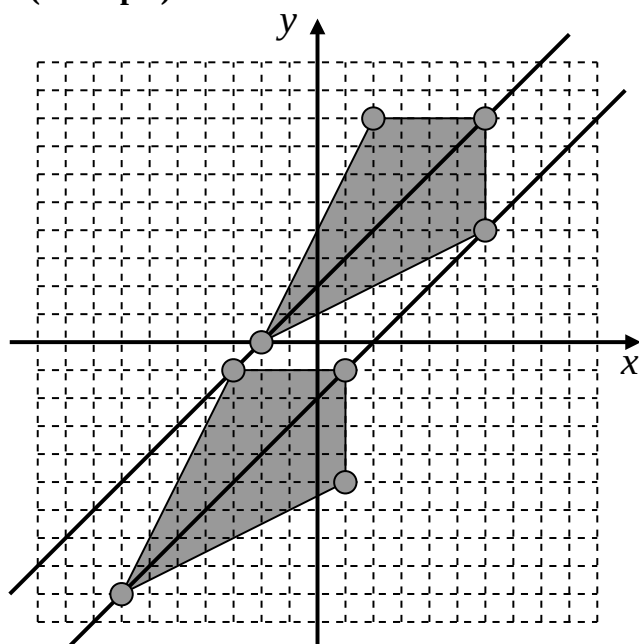


2.4 Answers

GCSE Mathematics Transformation Geometry

2.4.1 Solution (Example)



(iii) $y = x - 2$

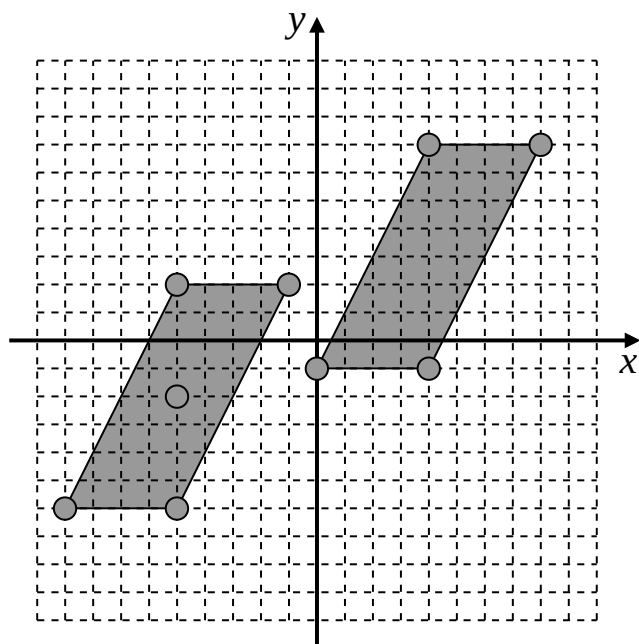
(v) $y = x + 2$

(vi) parallel

(vii) yes

2.4.2 Solution (Exercise)

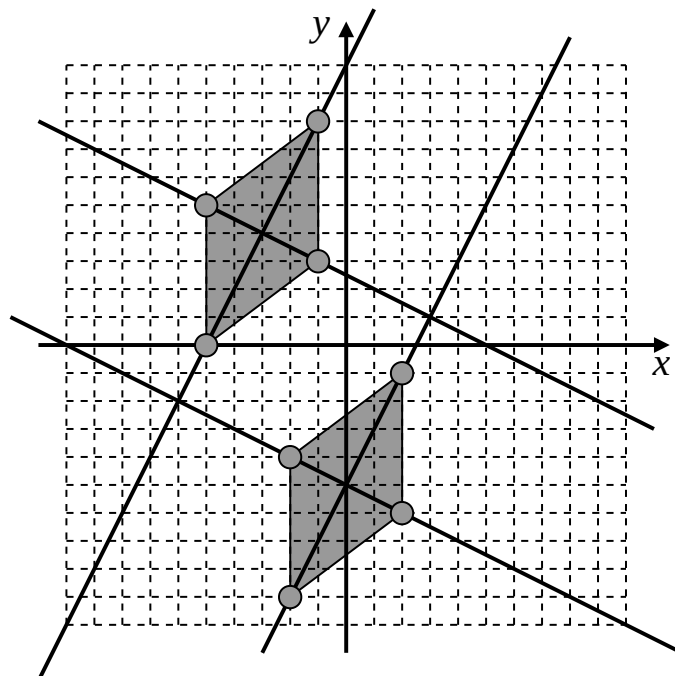
Answer 1



(ii) $(-5, -2)$

Answer 2

Approximately $\begin{pmatrix} 8 \\ -2 \end{pmatrix}$ cm.

Answer 3

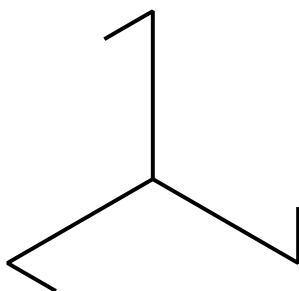
(iii) $y = 2x - 5$ and $y = -0.5x - 5$

(v) $y = 2x + 10$ and $y = -0.5x + 2.5$

(vi) It has rotational symmetry of order 2

Answer 4

For example:

**Answer 5**

(i) $\begin{pmatrix} 8 \\ 11 \end{pmatrix}$

(ii) $\begin{pmatrix} -9 \\ -5 \end{pmatrix}$

(iii) $\begin{pmatrix} 9 \\ -8 \end{pmatrix}$

Answer 6

- (i) (9, 10)
(ii) (45, 70)

Answer 7

- (i) (3, − 4)
(ii) (20.9, 2.6)

Answer 8

- (i) $\begin{pmatrix} 2 \\ 10 \end{pmatrix}$
(ii) $\begin{pmatrix} -11 \\ -5 \end{pmatrix}$