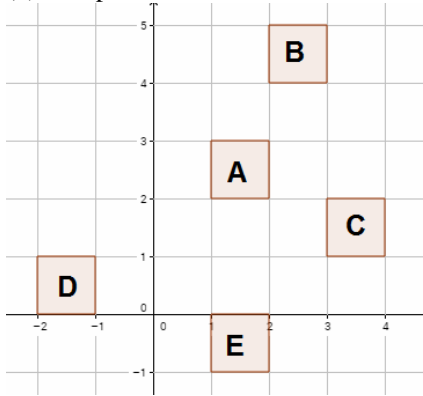


### Naming Transformations (Translations)

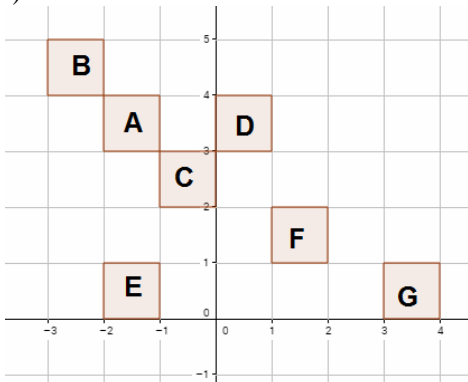
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(1) Complete each statement below:



- (a) A to B is a translation by the vector  $\begin{pmatrix} \phantom{0} \\ \phantom{0} \end{pmatrix}$
- (b) A to C is a translation by the vector  $\begin{pmatrix} \phantom{0} \\ \phantom{0} \end{pmatrix}$
- (c) A to D is a translation by the vector  $\begin{pmatrix} \phantom{0} \\ \phantom{0} \end{pmatrix}$
- (d) A to E

(2)

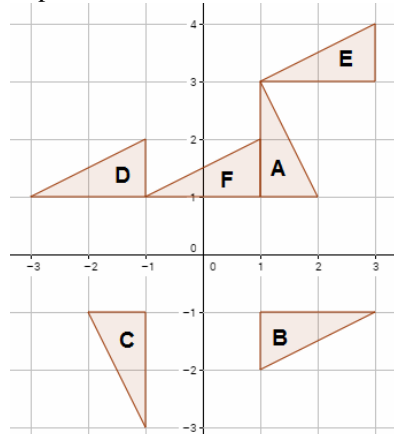


- (a) State **fully** the single transformation that maps: (i) A to B, (ii) B to A, (iii) A to C, (iv) C to B, (v) E to G, (vi) G to E, (vii) A to E, (viii) E to A, (ix) D to F, (x) A to F.
- (b) Draw the shape H such that the translation of A to H is (-1,-2).

### Naming Transformations (Rotations)

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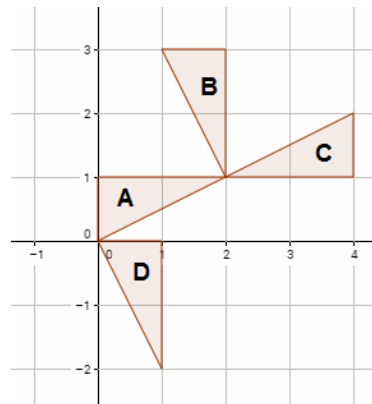
(1) Complete each statement below:



- (a) A to B is a rotation of  $\underline{\quad}^\circ$ , about the point  $(\quad, \quad)$
- (b) A to C is a rotation of  $\underline{\quad}^\circ$ , about the point  $(\quad, \quad)$
- (c) A to D is a rotation of  $\underline{\quad}^\circ$ , about the point  $(\quad, \quad)$
- (d) A to E is a rotation of  $\underline{\quad}^\circ$ , about the point  $(\quad, \quad)$
- (e) A to F is a rotation of  $\underline{\quad}^\circ$ , about the point  $(\quad, \quad)$

(Please note: there can be more than one valid answer for each of the above)

(2)

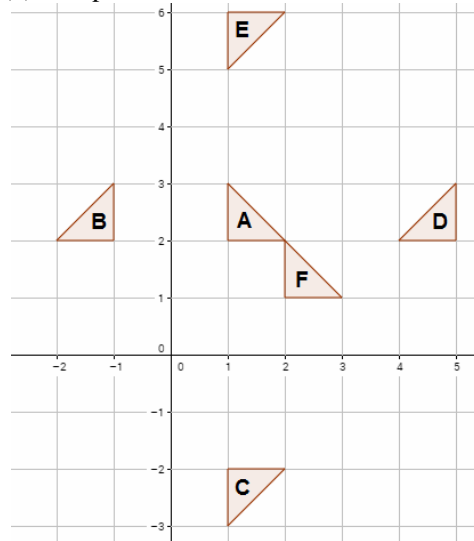


- State **fully** a single transformation that maps: (i) A to B, (ii) B to A, (iii) A to C, (iv) A to D, (v) D to A, (vi) C to B

### Naming Transformations (Reflections)

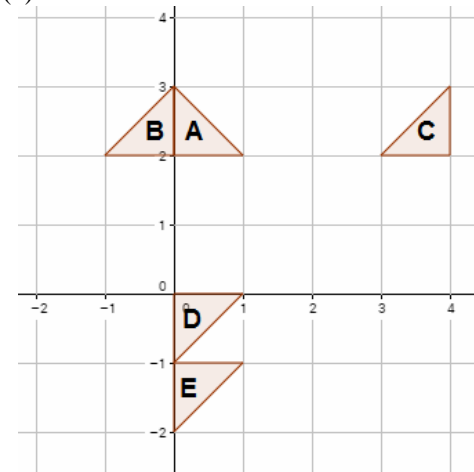
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(1) Complete each statement below:



- (a) B is a reflection of A in the  $\underline{\quad}$  axis.
- (b) C is a reflection of A in the  $\underline{\quad}$  axis.
- (c) D is a reflection of A in the line  $x = \underline{\quad}$
- (d) E is a reflection of A in the line  $y = \underline{\quad}$
- (e) F is a reflection of A in the line  $y = \underline{\quad}$

(2)

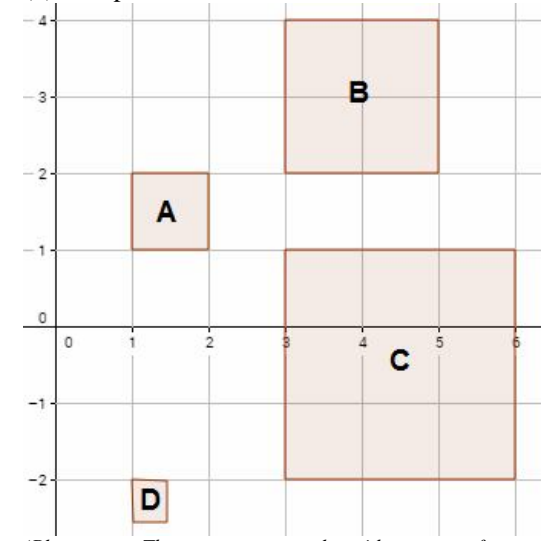


- State **fully** the single transformation that maps (i) A to B, (ii) A to C, (iii) A to D, (iv) A to E, (v) E to D (it's not a reflection!!!).

### Naming Transformations (Enlargements)

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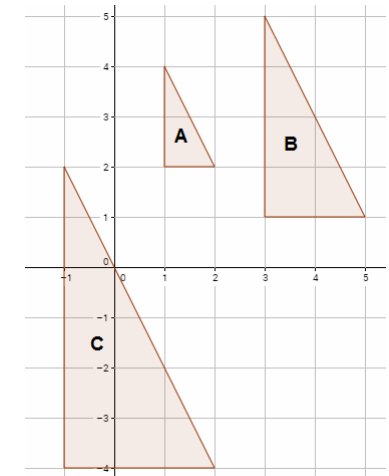
(1) Complete each statement below:



(Please note: These are **not** examples with a centre of enlargement)

- (a) A to B is an enlargement with scale factor  $\underline{\quad}$
- (a) A to C is an enlargement with scale factor  $\underline{\quad}$
- (a) A to D is an enlargement with scale factor  $\underline{\quad}$
- (a) B to A is an enlargement with scale factor  $\underline{\quad}$
- (a) C to A is an enlargement with scale factor  $\underline{\quad}$

(2)



- State **fully** the single transformation that maps (i) A to B, (ii) A to C, (iii) B to A (iv) B to C