

## Clive On Transformations 1

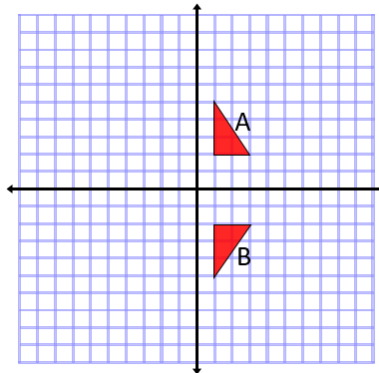
Clive is tackling his transformations homework and knows that he's made mistakes somewhere.

Can you spot and correct the mistakes Clive has made?

Can you explain what mistakes Clive has made, and maybe give him some tips so that he (hopefully) doesn't make them again?

### Question 1:

Describe fully the single transformation that maps shape A onto shape B:



*Clive's answer:*

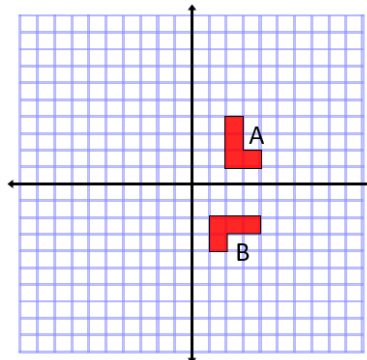
Flipped over the  $x$ -axis.

*Your answer:*

*What mistake has Clive made?*

### Question 2:

Describe fully the single transformation that maps shape A onto shape B:



*Clive's answer:*

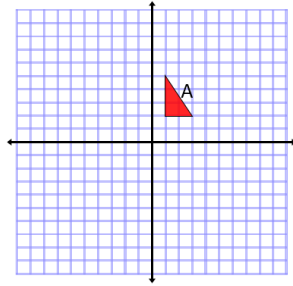
Rotated  $90^\circ$ , centre  $(0,0)$ .

*Your answer:*

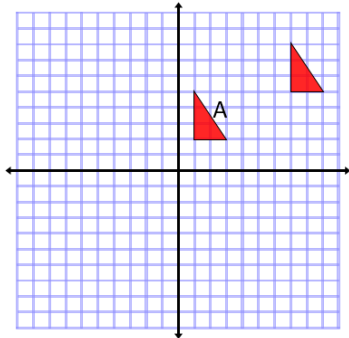
*What mistake has Clive made?*

**Question 3:**

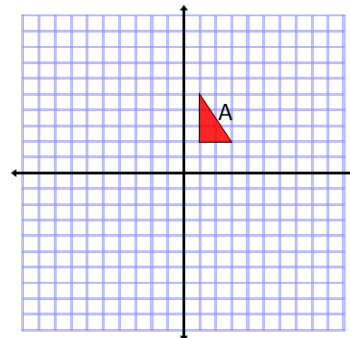
Translate shape A through the vector  $\begin{pmatrix} 6 \\ -3 \end{pmatrix}$



*Clive's answer:*



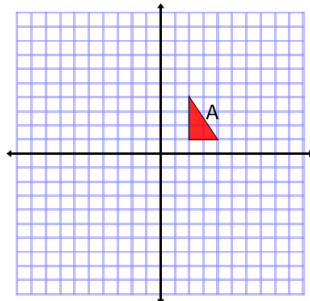
*Your answer:*



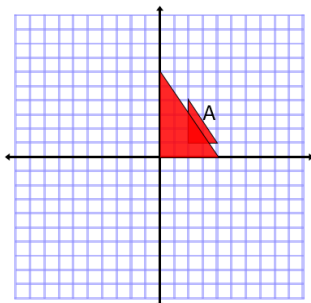
*What mistake has Clive made?*

**Question 4:**

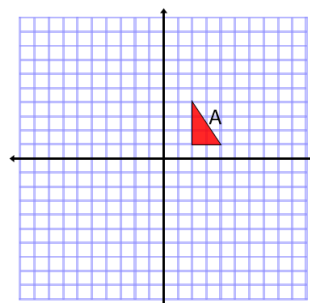
Enlarge shape A by scale factor 2, centre the origin.



*Clive's answer:*



*Your answer:*



*What mistake has Clive made?*