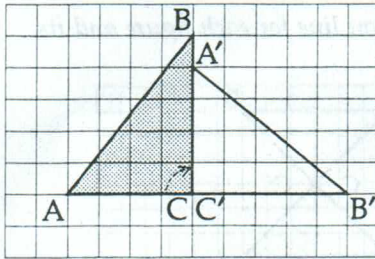


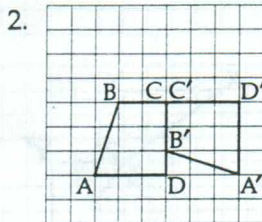
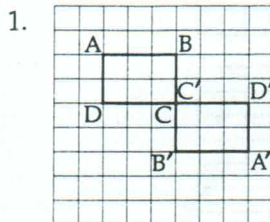
## 12.3 Rotations

MATHPOWER™ Seven, pp. 416–417

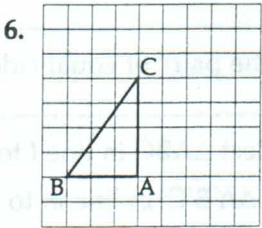
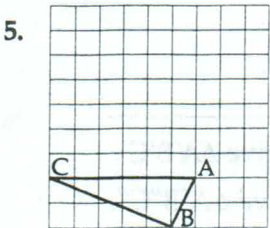
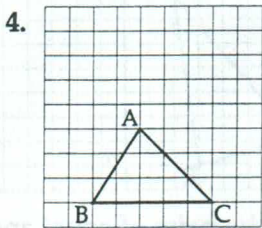
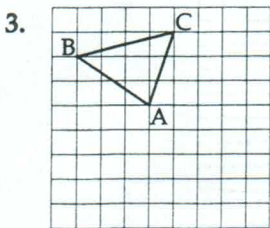


$\triangle A'B'C'$  is the rotation image of  $\triangle ABC$  following a rotation of  $90^\circ$  clockwise about C.

Describe a clockwise turn and a counterclockwise turn about point C that moves the figure ABCD onto the figure  $A'B'C'D'$ .

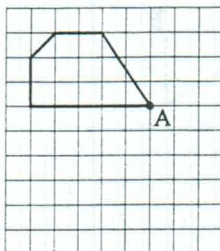


Draw the rotation image for each triangle for a  $90^\circ$  turn clockwise about A.

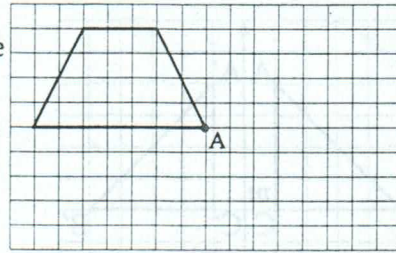


Draw the rotation image for each rotation about A.

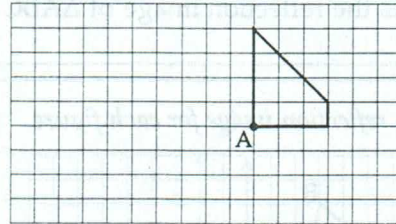
7.  $90^\circ$  counterclockwise



8.  $180^\circ$  clockwise

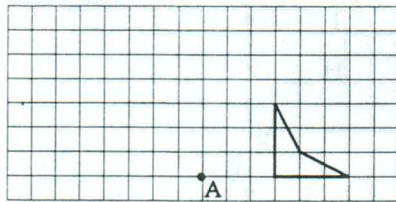


9.  $270^\circ$  counterclockwise

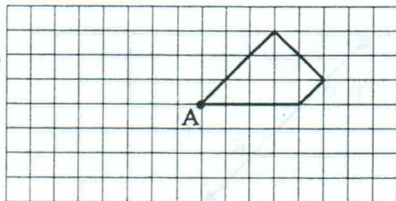


Draw the rotation image for each of the following for the given rotation and rotation centre.

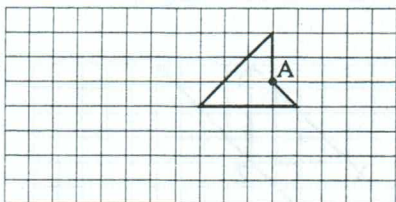
10.  $90^\circ$  counterclockwise



11.  $180^\circ$  clockwise



12.  $270^\circ$  clockwise



13.  $90^\circ$  clockwise

