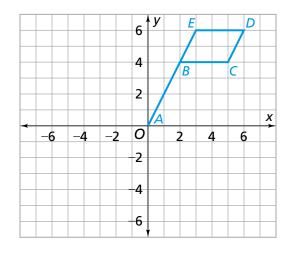


## **3.3** Spinning on a Grid Coordinate Rules for Rotations

Look again at the flag in the first quadrant.

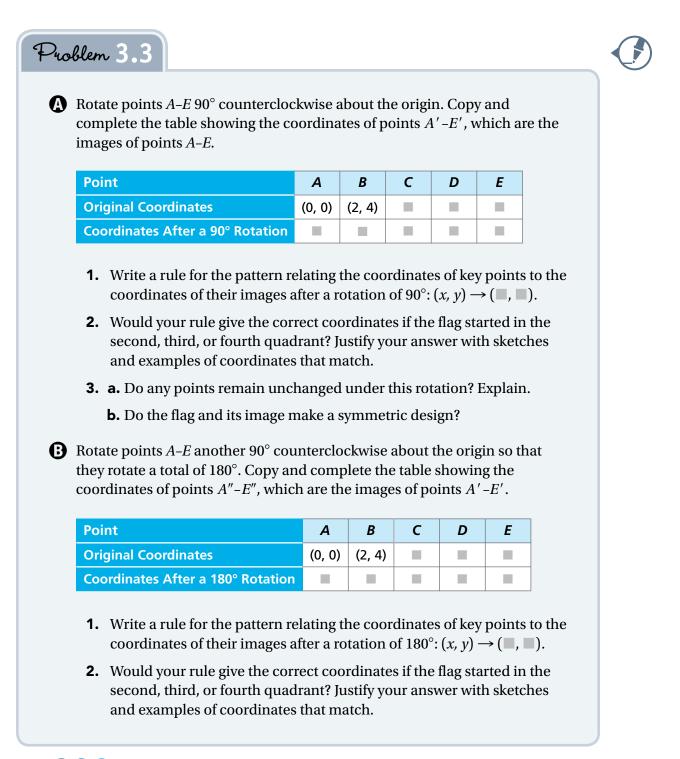


What coordinate rules for rotations would rotate the flag 90° or 180° counterclockwise about point A?



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In this Problem, you will find rules relating coordinates of key points on the flag to coordinates of their images after quarter- and half-turn rotations.



**ACE** Homework starts on page 61.