V understand concept of rotation	
awing images after rotation	
nd coordinates of points after	
ation	
Example 12 Draw images after rotations about the origin.	
Triangle ABC is shown on the coordinate plane.	
Draw and label the image A'B'C' under each rotation.	
Then complete the table of coordinates.	
A triangular flag ABC is connected to a	
rotating shaft. The shaft is positioned at	
the origin, O.	x
Original Point A (2, -1) B (4, 0) C (2, 0)	
Is Mapped Onto A' (?, ?) B' (?, ?) C' (?, ?)	
a) 90° clockwise about the origin, O	
a) 90° clockwise about the origin, O	
b) 180° about the origin, O	
b) 180° about the origin, O Original Point A (2, -1) B (4, 0) C (2, 0)	
b) 180° about the origin, O	
b) 180° about the origin, O Original Point A (2, -1) B (4, 0) C (2, 0)	
b) 180° about the origin, O Original Point A (2, -1) B (4, 0) C (2, 0)	
b) 180° about the origin, O Original Point A (2, -1) B (4, 0) C (2, 0)	
b) 180° about the origin, O Original Point A (2, -1) B (4, 0) C (2, 0) Is Mapped Onto A" (?, ?) B" (?, ?) C" (?, ?) 	
b) 180° about the origin, O Original Point A (2, -1) B (4, 0) C (2, 0) Is Mapped Onto A'' (?, ?) B'' (?, ?) C'' (?, ?) 	
b) 180° about the origin, O Original Point A (2, -1) B (4, 0) C (2, 0) Is Mapped Onto A" (?, ?) B" (?, ?) C" (?, ?)	
b) 180° about the origin, O Original Point A $(2, -1)$ B $(4, 0)$ C $(2, 0)$ Is Mapped Onto A'' $(?, ?)$ B'' $(?, ?)$ C'' $(?, ?)$	
b) 180° about the origin, O Original Point A $(2, -1)$ B $(4, 0)$ C $(2, 0)$ Is Mapped Onto A'' $(?, ?)$ B'' $(?, ?)$ C'' $(?, ?)$	
b) 180° about the origin, O $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
b) 180° about the origin, O $ \frac{\text{Original Point} A(2, -1) B(4, 0) C(2, 0)}{\text{Is Mapped Onto} A''(?, ?) B''(?, ?) C'''(?, ?)} $	
b) 180° about the origin, O $ \frac{\text{Original Point} A(2, -1) B(4, 0) C(2, 0)}{\text{Is Mapped Onto} A''(?, ?) B''(?, ?) C''(?, ?)} $	
b) 180° about the origin, O $ \frac{\text{Original Point} A(2, -1) B(4, 0) C(2, 0)}{\text{Is Mapped Onto} A''(?, ?) B''(?, ?) C''(?, ?)} $	

