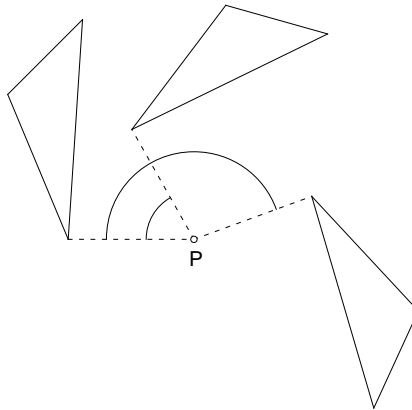


# ROTATIONS

The diagram below shows the same shape rotated by two different angles about a point P. The point P is called the 'centre of rotation'.



To rotate one of Geo-Pro's triangles, you can use the corner of another shape as the centre of rotation.

Simply draw the triangle in its initial position and without moving your paper move your pen to the "far" corner of another shape and rotate Geo-Pro around your pen.

1. Choose a Geo-Pro triangle and draw a diagram showing it rotated by 3 different angles.
2. Repeat question 1 for a different triangle.
3. Choose a quadrilateral and draw a diagram showing it rotated by 3 different angles.
4. Repeat question 3 for a different quadrilateral.

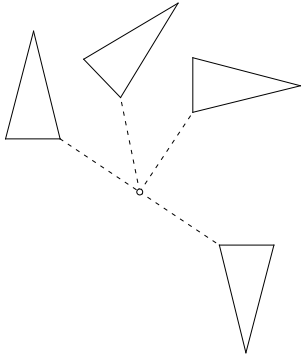
**Extension:**

5. Show a regular hexagon rotated by  $30^\circ$ .
6. Draw a regular octagon and rotate it by  $22.5^\circ$ .

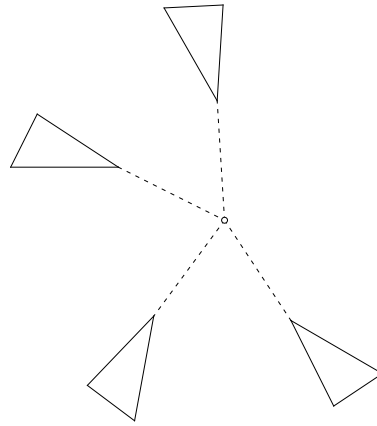
# Answers ROTATIONS

Answers will vary. Samples appear below.

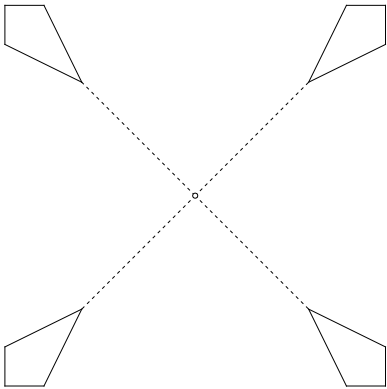
1.



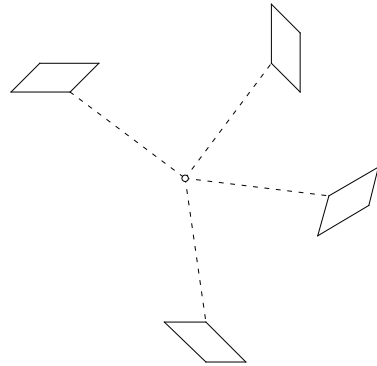
2.



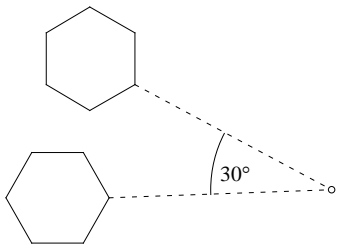
3.



4.



5.



6.

