

## **Lesson 3 Practice Problems**

1. Apply each transformation described to Figure A. If you get stuck, try using tracing paper.



- a. A translation which takes P to P'
- b. A counterclockwise rotation of A, using center P, of 60 degrees
- c. A reflection of A across line  $\ell$
- 2. Here is triangle *ABC* drawn on a grid.



On the grid, draw a rotation of triangle *ABC*, a translation of triangle *ABC*, and a reflection of triangle *ABC*. Describe clearly how each was done.



3. a. Draw the translated image of ABCDE so that vertex C moves to C'. Tracing paper may be useful.



b. Draw the reflected image of Pentagon ABCDE with line of reflection  $\ell$ . Tracing paper may be useful.

• C'



c. Draw the rotation of Pentagon *ABCDE* around *C* clockwise by an angle of 150 degrees. Tracing paper and a protractor may be useful.



(From Unit 1, Lesson 2.)