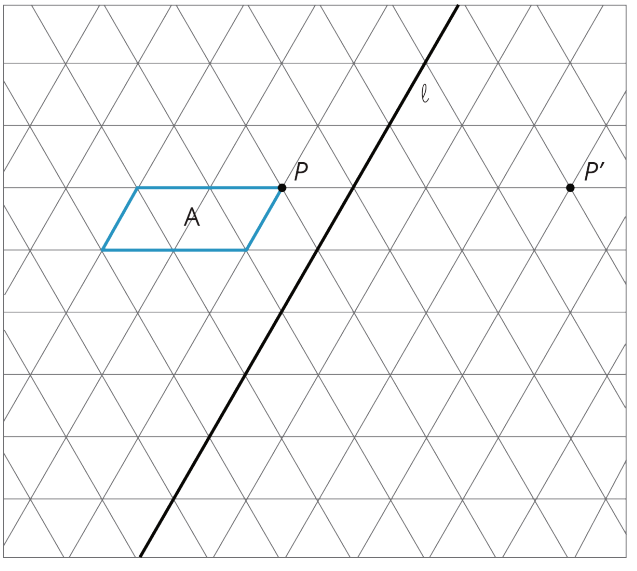
Unit 1 Lesson 3 Cumulative Practice Problems

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

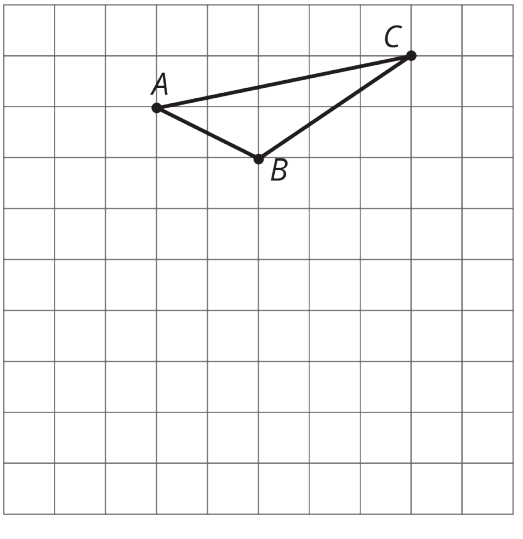


   a. A translation which takes P to P'

   b. A counterclockwise rotation of A, using center P, of 60 degrees

   c. A reflection of A across line ℓ

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.

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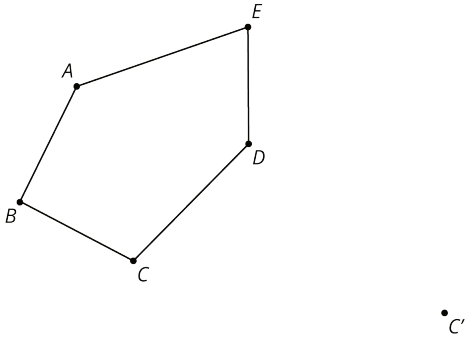
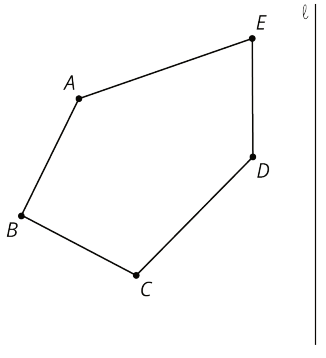
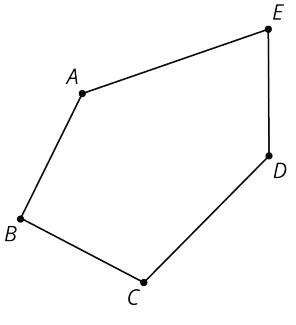
3. a. Draw the translated image of $ABCDE$ so that vertex C moves to C'. Tracing paper may be useful.



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



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.)

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