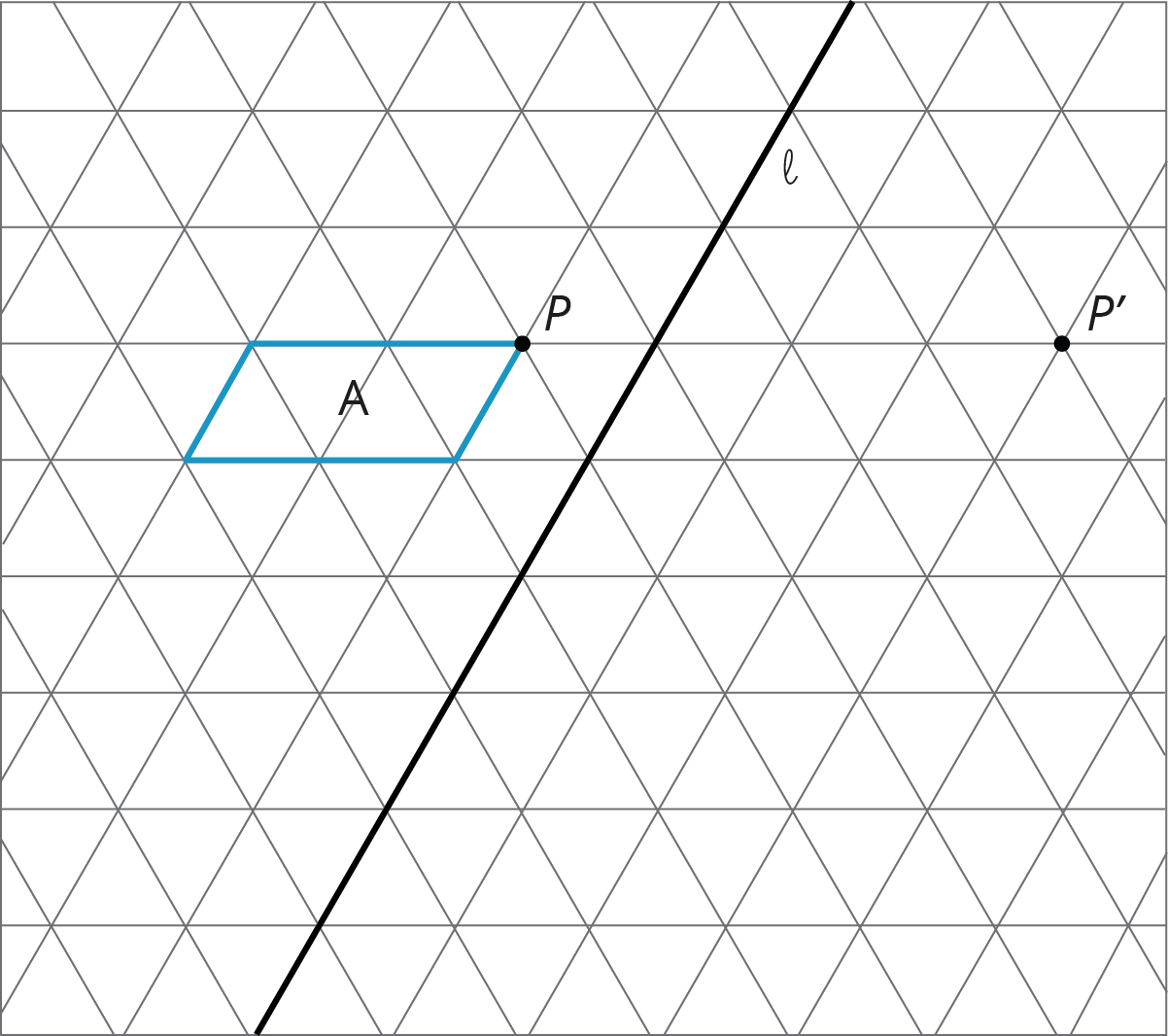
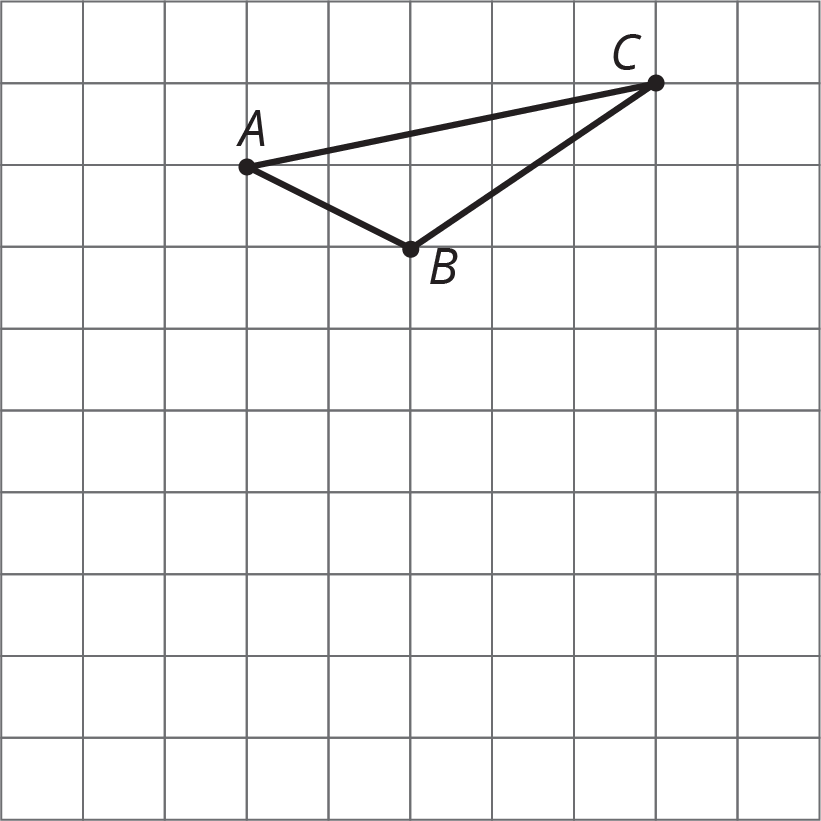
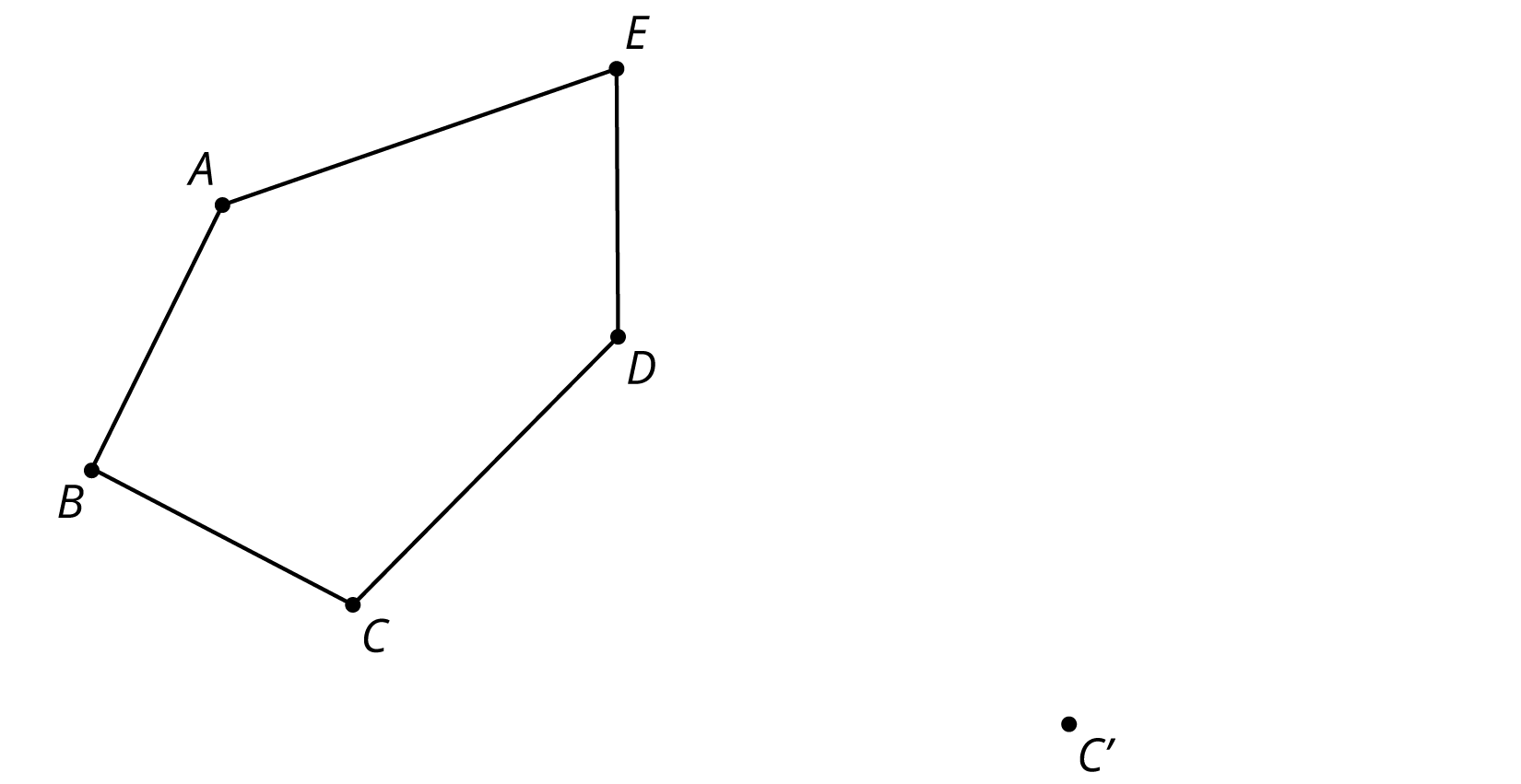
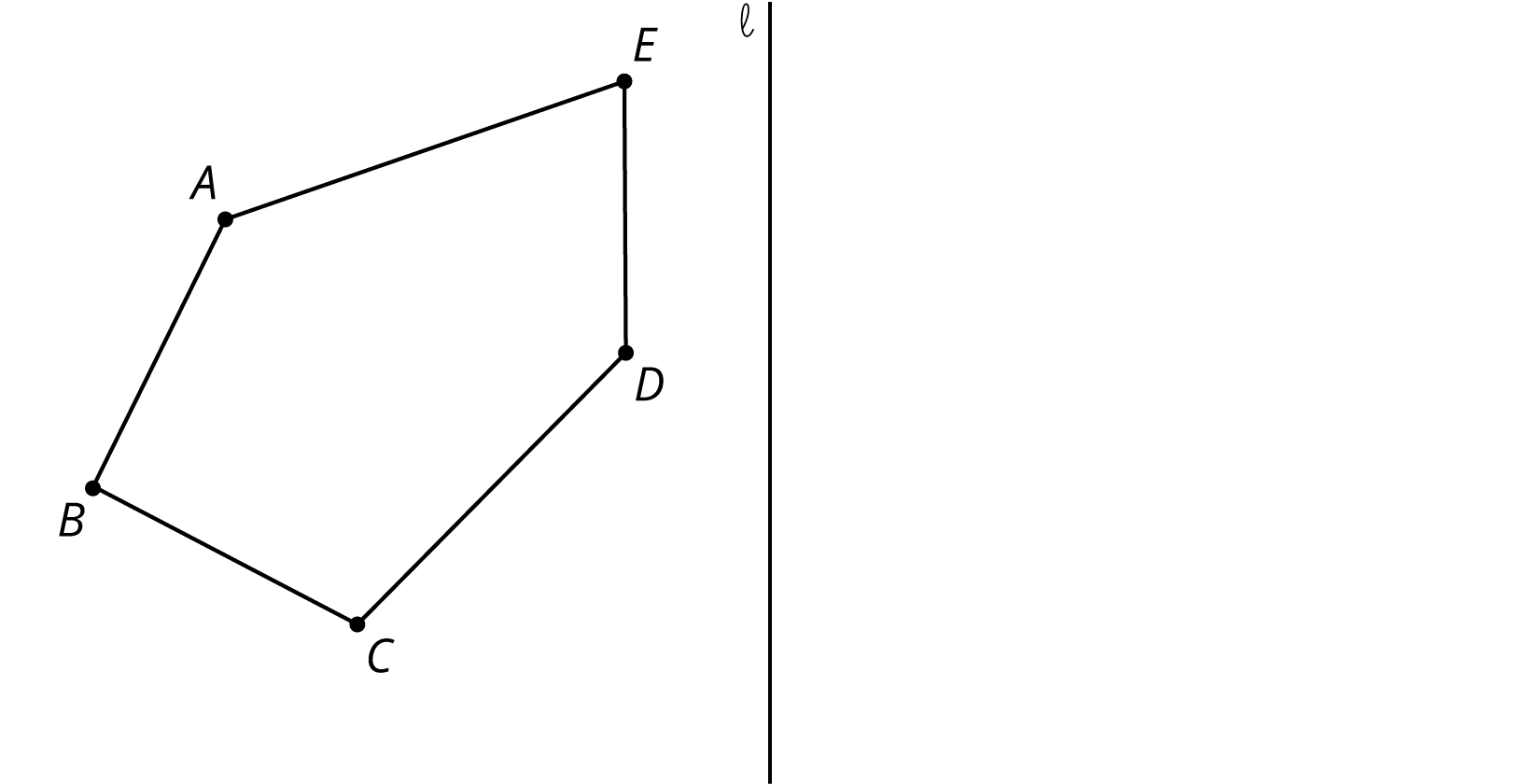
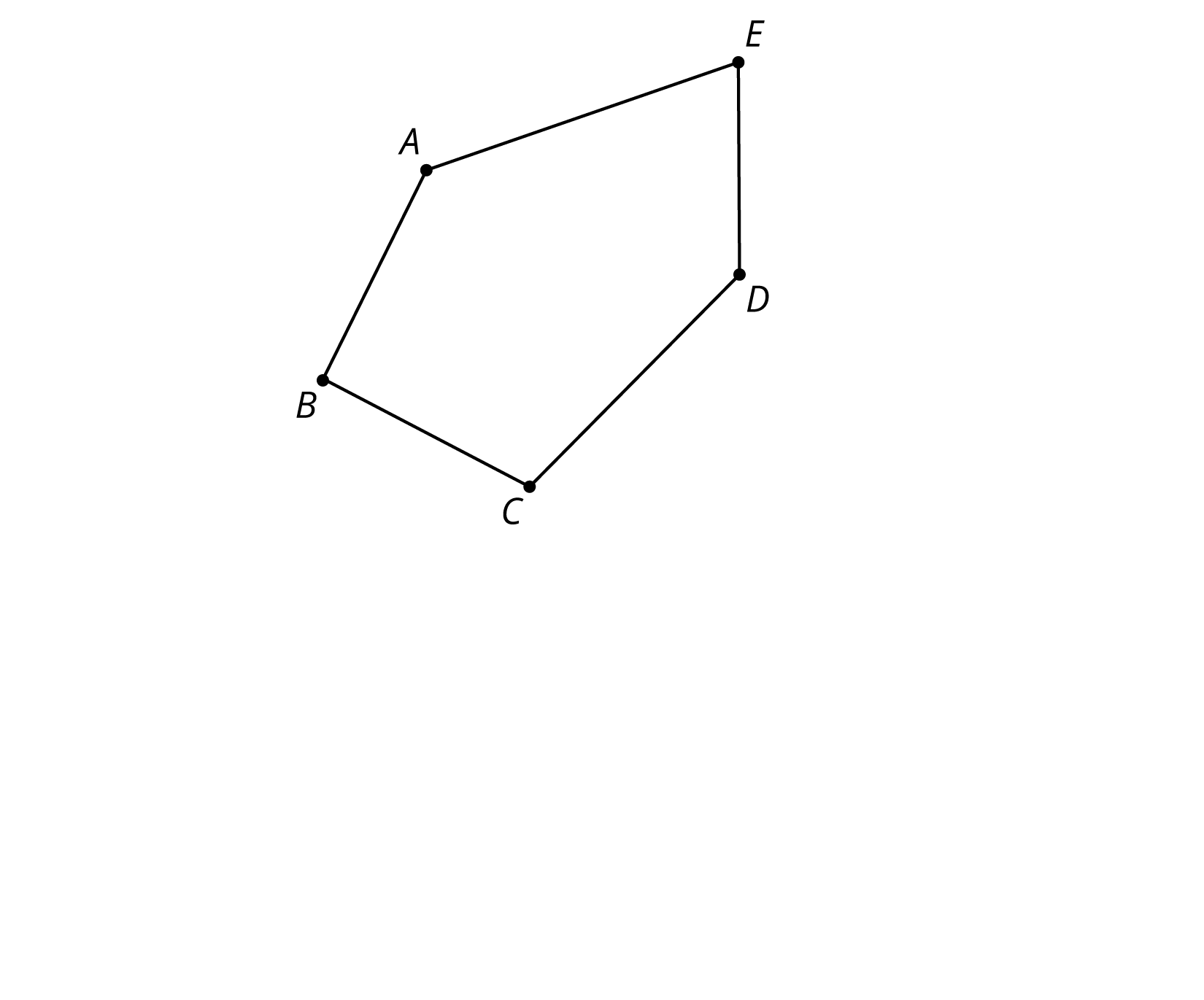
## Unit 1 Lesson 3 Cumulative Practice Problems

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

* 
  1. A translation which takes to
  2. A counterclockwise rotation of A, using center , of 60 degrees
  3. A reflection of A across line

1. Here is triangle drawn on a grid.

* 
* On the grid, draw a rotation of triangle , a translation of triangle , and a reflection of triangle . Describe clearly how each was done.
  1. Draw the translated image of so that vertex moves to . Tracing paper may be useful.
  + 
  1. Draw the reflected image of Pentagon with line of reflection . Tracing paper may be useful.
  + 
  1. Draw the rotation of Pentagon  around clockwise by an angle of 150 degrees. Tracing paper and a protractor may be useful.
  + 
* (From Unit 1, Lesson 2.)



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