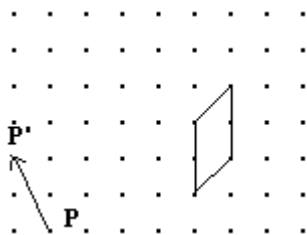
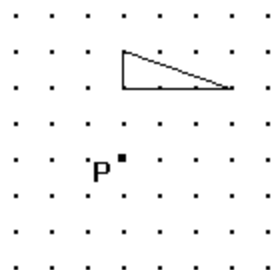


Solve the problem.

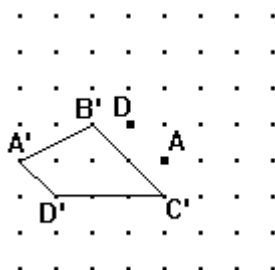
- 1) Find the image of the given figure under the translation that takes P to P'.



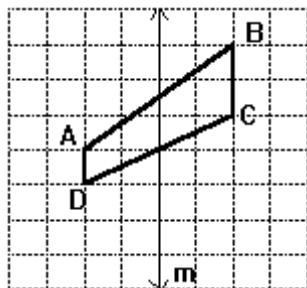
- 2) Find the image of the given figure under a 90° clockwise rotation about P.



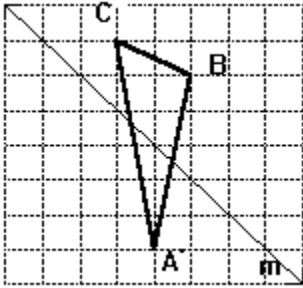
- 3) The image of a figure is given for a rotation that takes A to A' and D to D'. Find the original figure. Note again, the given figure is the image after rotation.



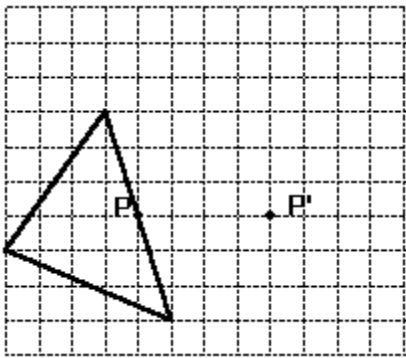
- 4) Find the image of the given figure under a reflection across the mirror line m.



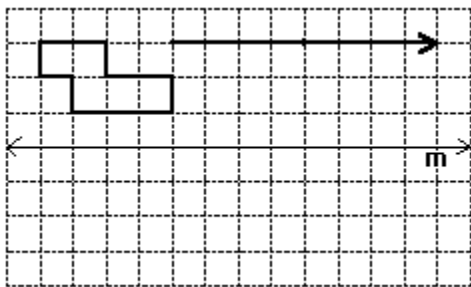
5) Find the image of the given figure under a reflection across the mirror line m .



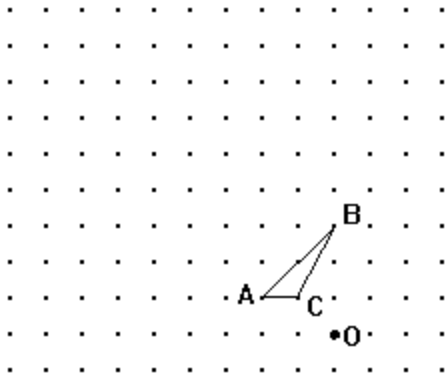
6) Find the image of the given figure under the reflection that sends P to P' .



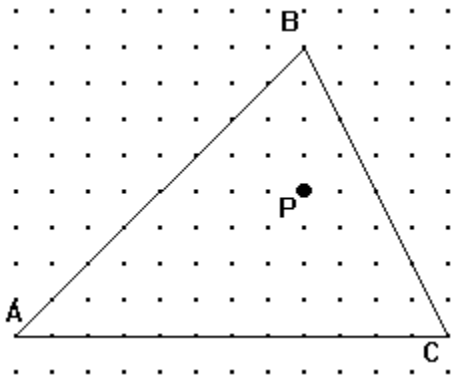
7) A glide reflection is defined by the given slide arrow and the line of reflection m . Find the image of the given figure under this glide reflection.



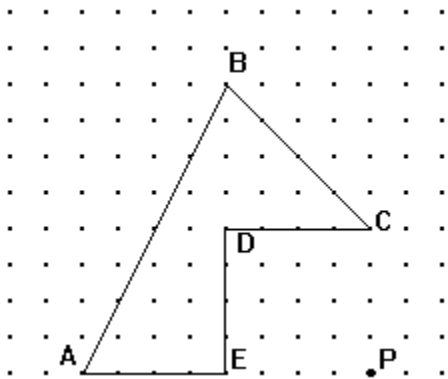
8) Find the image of triangle ABC for the size transformation with center O and scale factor 3.



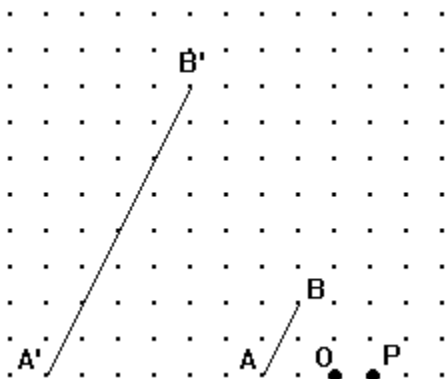
9) Find the image of triangle ABC for the size transformation with center P and scale factor 1/4.



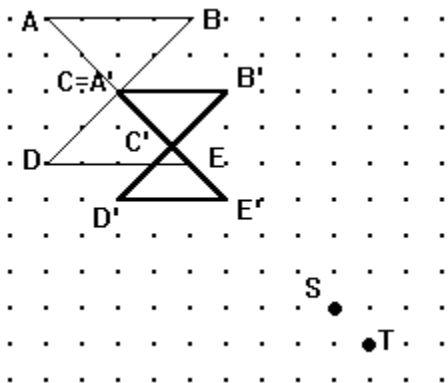
10) Find the image of rectangle ABCDE for the size transformation with center P and scale factor 5/4.



11) Find the center and the scale factor of the size transformation shown below.



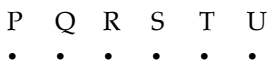
12) Find the center and the scale factor of the size transformation shown below.



- A) Center T; scale factor 1/2
- C) Center S; scale factor 4/3

- B) Center T; scale factor 3/4
- D) Center S; scale factor 3/4

13) If the points P, Q, R, S, T, and U are equally spaced and collinear, then find the center and scale factor for the size transformation taking \overline{PR} to \overline{PT} .



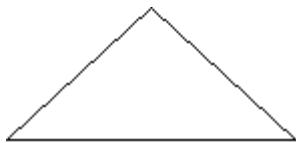
Describe all symmetries of the figure shown.

14)



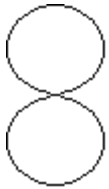
Square

15)



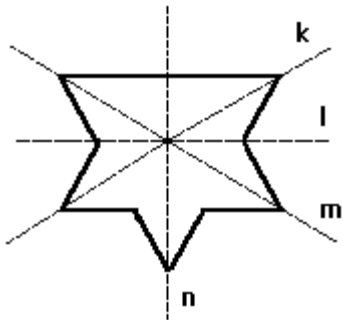
Isosceles Triangle

16)



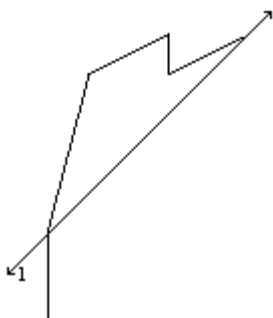
Solve the problem.

17) Which of the lines in the picture are lines of symmetry of the given figure?

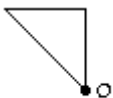


Complete the sketch so that it has the indicated symmetry.

18) Complete the sketch so that it has line symmetry about l .



19) Complete the sketch so that it has point symmetry about O . Use only a compass and straightedge.



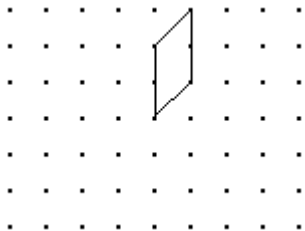
20) Complete the sketch so that it has 60° rotational symmetry about O.



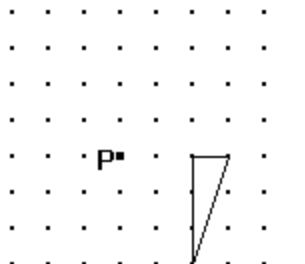
Answer Key

Testname: CH12REVIEW.TST

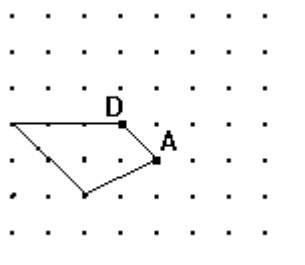
1)



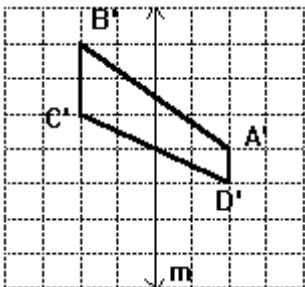
2)



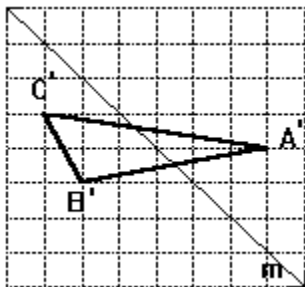
3)



4)



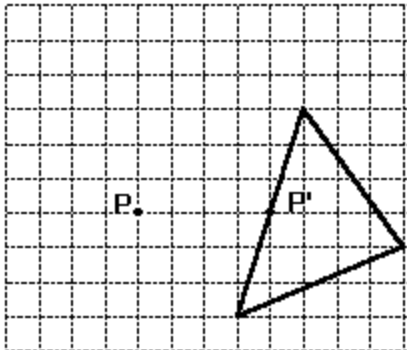
5)



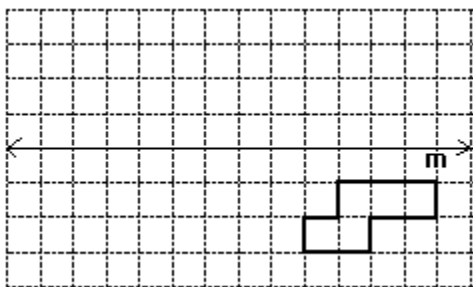
Answer Key

Testname: CH12REVIEW.TST

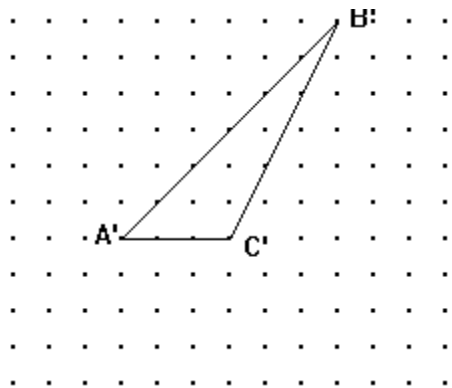
6)



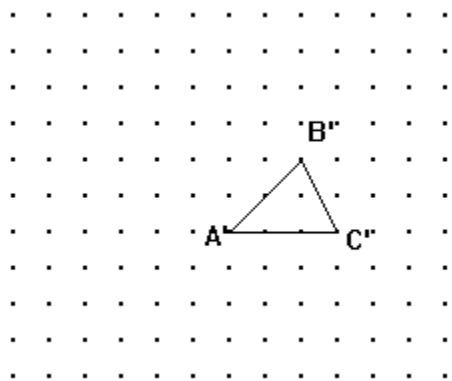
7)



8)



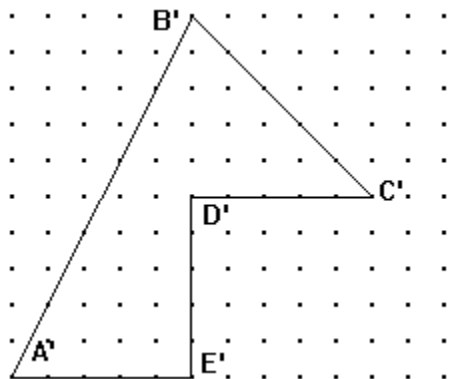
9)



Answer Key

Testname: CH12REVIEW.TST

10)



11) Center O; scale factor 4

12) D

13) Center P; scale factor 2

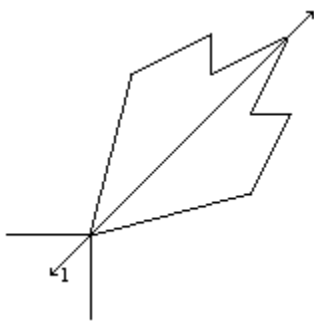
14) 4 lines of symmetry, 90° , 180° and 270° rotation symmetry, point symmetry

15) 1 line of symmetry

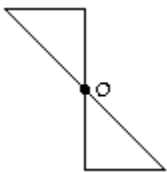
16) 2 lines of symmetry, 180° rotation symmetry, point symmetry

17) Only n

18)



19)



20)

