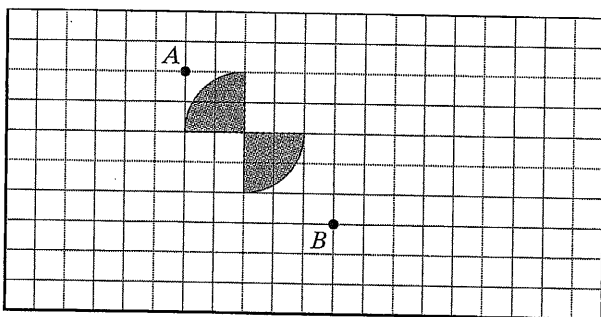
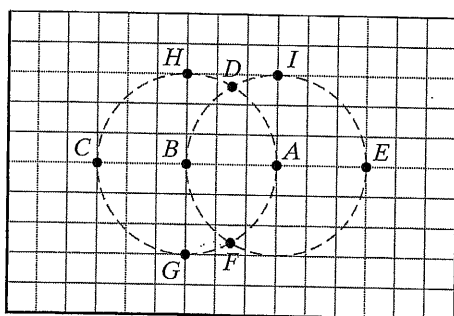


10. Consider a reflection for which A and B in the following figure are fixed points. Find the image of the shaded region under the reflection.



B. Rotations

Exercises 11 and 12 refer to the following figure.



11. Which point in the figure is
- the image of B under a 90° clockwise rotation with rotocenter A ?
 - the image of B under a 180° rotation with rotocenter A ?
 - the image of A under a 90° clockwise rotation with rotocenter B ?
 - the image of D under a 60° clockwise rotation with rotocenter B ?
 - the image of D under a 120° clockwise rotation with rotocenter B ?
 - the image of D under a 120° counterclockwise rotation with rotocenter B ?
 - the image of I under a 3690° clockwise rotation with rotocenter A ?
 - the image of I under a 7530° clockwise rotation with rotocenter A ?
12. Which point in the figure is
- the image of C under a 90° clockwise rotation with rotocenter B ?
 - the image of C under a 90° counterclockwise rotation with rotocenter B ?

- the image of H under a 90° clockwise rotation with rotocenter B ?
- the image of F under a 60° clockwise rotation with rotocenter A ?
- the image of F under a 120° clockwise rotation with rotocenter B ?
- the image of I under a 90° clockwise rotation with rotocenter H ?
- the image of G under a 3870° counterclockwise rotation with rotocenter B ?
- the image of F under a 5550° counterclockwise rotation with rotocenter B ?

13. In each of the following, give an answer between 0° and 360° .

- A clockwise rotation by an angle of 250° is equivalent to a counterclockwise rotation by an angle of ____.
- A clockwise rotation by an angle of 710° is equivalent to a clockwise rotation by an angle of ____.
- A counterclockwise rotation by an angle of 710° is equivalent to a clockwise rotation by an angle of ____.
- A clockwise rotation by an angle of 3681° is equivalent to a clockwise rotation by an angle of ____.

14. In each of the following, give an answer between 0° and 360° .

- A clockwise rotation by an angle of 500° is equivalent to a clockwise rotation by an angle of ____.
- A clockwise rotation by an angle of 500° is equivalent to a counterclockwise rotation by an angle of ____.
- A clockwise rotation by an angle of 5000° is equivalent to a clockwise rotation by an angle of ____.
- A clockwise rotation by an angle of $50,000^\circ$ is equivalent to a clockwise rotation by an angle of ____.

15. Given a rotation that moves the point B to the point B' and the point C to the point C' as shown in the following figure, find

- the rotocenter.
- the image of triangle ABC under the rotation.

