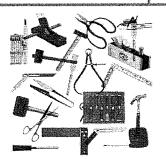
Ready, Set, Go!



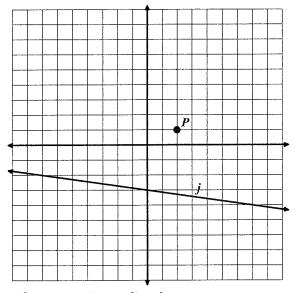
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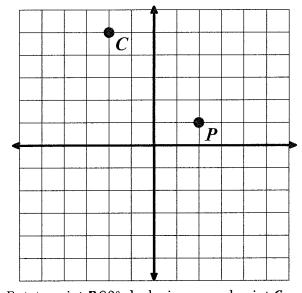
Ready

Topic: Rotation symmetry for regular polygons and transformations

- 1. What angles of rotational symmetry are there for a pentagon?
- 2. What angles of rotational symmetry are there for a hexagon?
- 3. If a regular polygon has an angle of rotational symmetry that is 40°, how many sides does the polygon have?

On each given coordinate grid below perform the indicated transformation.





Reflect point P over line j.

Rotate point **P** 90° clockwise around point **C**.

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Set

Topic: Constructing regular polygons inscribed in a circle.

6. Construct an isosceles triangle that incorporates $\overline{\mathit{CD}}$ as one of the sides. Construct the inscribing circle around the triangle.



7. Construct a hexagon that incorporates $\overline{\mathit{CD}}$ as one of the sides. Construct the inscribing circle around the hexagon.



8. Construct a square that incorporates \overline{CD} as one of the sides. Construct the inscribing circle around the square.



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Go

Topic: Finding distance and slope.

For each pair of given coordinate points find distance between them and find the slope of the line that passes through them. Show all your work.

9. (-2, 8), (3, -4)

a. Slope:

b. Distance:

10. (-7, -3), (1, 5))

a. Slope:

b. Distance:

11. (3, 7), (-5, 9)

a. Slope:

b. Distance:

12. (1, -5) (-7, 1)

a. Slope:

b. Distance:

13. (-10, 31) (20, 11)

a. Slope:

b. Distance:

14. (16, -45) (-34, 75)

a. Slope:

b. Distance:

