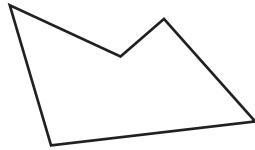


GRADE 10 **Focus on Sunshine State Standards: Benchmark Tests**
MA.912.G.2.1 Benchmark Pre-Test (Multiple Choice)

1. Use the polygon below.



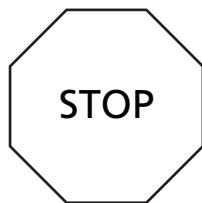
Which BEST describes it?

- A. convex quadrilateral
- B. convex pentagon
- C. concave pentagon
- D. concave hexagon

2. Maria's patio is in the shape of a polygon with four sides. When she walks from some points on the patio to some other points on the patio in a straight line she must walk outside the patio. Which best describes her patio?

- F. concave quadrilateral
- G. regular hexagon
- H. convex quadrilateral
- I. regular octagon

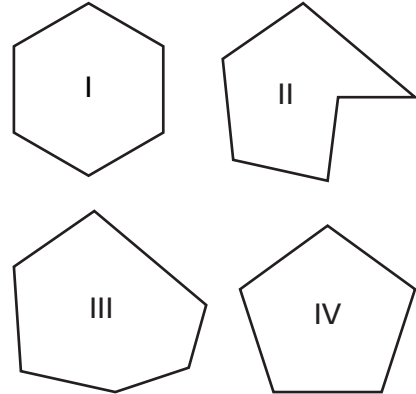
3. Use the polygon below.



Which BEST describes it?

- A. concave octagon
- B. regular octagon
- C. convex heptagon
- D. regular hexagon

4. Use the diagram below.



Which of the polygons is a convex hexagon that is NOT regular?

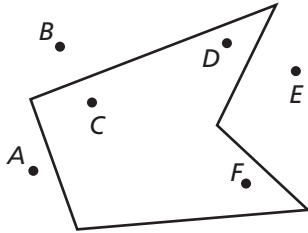
- F. only I and III
- G. only I and II
- H. only III
- I. only I, II, and III

5. Which of the following is true?

- A. In a regular polygon, all sides have the same length and all angles must have the same measure.
- B. In a regular polygon, all sides have the same length and only two angles have the same measure.
- C. In a regular polygon, all angles have the same measure but no two sides have the same length.
- D. In a regular polygon, all sides have the same length but the angles need not have the same measure.

GRADE 10 **Focus on Sunshine State Standards: Benchmark Tests**
MA.912.G.2.1 Benchmark Pre-Test (Multiple Choice)

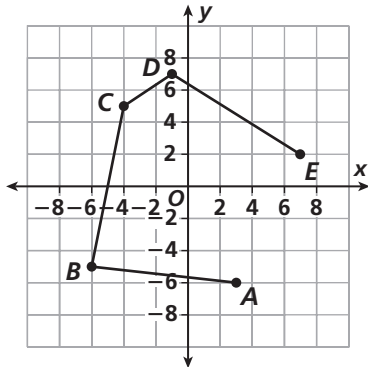
6. Use the diagram below.



Which line segment shows that the polygon is concave?

- F. \overline{DE}
- G. \overline{DF}
- H. \overline{CF}
- I. \overline{AB}

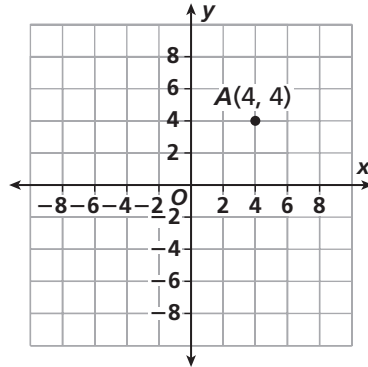
7. Use the figure below.



Which of the following points, when connected to Point E and Point A by line segments, will complete a convex polygon?

- A. $P(5, 0)$
- B. $P(5, 7)$
- C. $P(8, 0)$
- D. $P(-1, 0)$

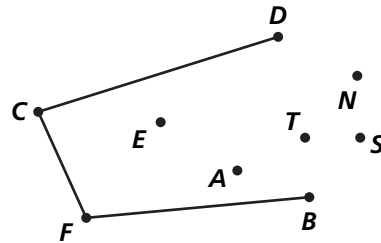
8. Use the diagram below.



Which set of points can be used to identify the other three vertices of a regular polygon with four sides?

- F. $(8, 8)$, $(2, 2)$, and $(0, 0)$
- G. $(-4, -4)$, $(0, 4)$, and $(4, 0)$
- H. $(-4, 1)$, $(0, 4)$, and $(4, 0)$
- I. $(-4, 4)$, $(4, -4)$, and $(-4, -4)$

9. Use the diagram below.



Which two points can you connect to the others to complete a convex hexagon?

- A. E and A
- B. N and E
- C. A and T
- D. N and S