1. Which equation below represents the quadratic formula?

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*a. [-b\pm b^2-4ac] / [2a] = x
b. a^2+b^2=c^2
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c.
$$f(x) = a_0 + \sum_{n=1}^{\infty} (a_n \cos[n\pi x] / [L] + b_n \sin[n\pi x] / [L])$$

2. Which of the following represents a set of parallel lines?



3. What is the definition of an obtuse angle?

*a. an angle greater than 90°
b. an angle equal to 90°
c. an angle less than 90°

4. Which formula below represents the area of a circle?

a.
$$A=2\pi r$$

*b. $A=\pi r^2$
c. $A=\pi^2 r$
d. $A=\sqrt{\pi}$

5. What geometric term is represented by the image below?



11. Using the data in the table below, calculate the mean, or average, number of points scored by Player B.

	Game 1	Game 2	Game 3	Game 4	Game 5
Player A	13	12	9	11	13
Player B	12	11	15	20	12

*a. 14

b. 11.5

c. 13

d. 13.67

6. This instrument is commonly used by surveyors. It measures horizontal and vertical angles to determine the location of a point from other known points at either end of a fixed baseline, rather than measuring distances to the point directly. What is it called?



a. triangulator b. binocular c. tripod *d. theodolite 7. What is the name of the missing shape in the flowchart below?



- a. Acute
- b. Obtuse
- *c. Isosceles
- d. Right
- 8. What category includes all of the items on the list below?
 - . Square
 - . Rectangle
 - . Rhombus
 - . Parallelogram
 - . Trapezoid
 - . Pentagon
- a. Quadrilaterals
- b. Triangles
- c. Ellipses
- *d. Polygons
- 9. Determine the area of the shaded portion in the diagram below.



- .
- .
- ABCD is a square ABCD touches the circle at 4 points The length of one side of the square ABCD is 2 cm .

a.
$$\pi$$
- 4
*b. 2π - 4
c. $3\pi^2$ - 4
d. $4\pi^3$ - 4
e. 5π - 4