

## WELCOME

Chapter 10: Section 1

## Warm Up

1. Factor: $2 x^{2}+3 x-9$

Solve by factoring:
2. $(4 x+5)(x+1)=0$
3. $x^{2}+3 x-12=6$

## Chap 10: Day 1 Learning Target

- Finding angles and arc lengths within Inscribed Polygons in circles.


## Inscribed Polygon

If all vertices of a polygon lie on the side of a circle, then the polygon is Inscribed in the circle and the circle is circumscribed about the polygon.


# Inscribed Triangles and Quadrilaterals 

## Right $\Delta$ Theorem

An inscribed $\Delta$ is right IFF the hypotenuse is the diameter of the $\odot$

$\overline{A B}$ is a Diam./Hypotenuse.

Quadrilateral Theorem
A quad. can be inscribed in
〇 IFF the opposite angles are supplementary

$\angle A+\angle D=\angle B+\angle C=180^{\circ}$

Find the value of each variable.
a.

b.


