Circles

- A circle is a set of points that are equidistant from the _____
- The segment that goes from the center to a point on the circle is called the
- The segment that goes from one point on the circle to another point on the circle and crosses over the center is called the ______.

Distance formula:	Midpoint formula:
Example of when you might use this:	Example of when you might use this:
Find the distance between (3, -4) and (-2, -6)	Find the midpoint of the segment with endpoints at (3, -4) and (-2, -6)
Standard form of a circle: $(x - h)^2 + (y - k)^2 = r^2$	Example: $(x-2)^2 + (y+5)^2 = 25$
Center :	What is the center of the graph?
Radius:	What is the radius of the graph?
Graphing: $(x-2)^2 + (y+5)^2 = 25$	$(x+2)^2 + y^2 = 9$
Center:	Center:
Radius:	Radius:
Write the equation of a circle that has a center at (2, 4) and a point on the circle is (3, -5).	Write the equation of a circle that has endpoints of the diameter of (-2, 5) and (1, 3).