

MATH 191 FUNDAMENTALS OF MATHEMATICS II  
SECTION 10.4: CIRCLES AND SPHERES  
JANUARY 27, 2014

**Definitions**

A **circle** is

This point is called \_\_\_\_\_ and the distance is called \_\_\_\_\_.

The **diameter** is

Some ways of drawing circles:

These ways of drawing circles work because:

A **sphere** is

This point is called \_\_\_\_\_ and the distance is called \_\_\_\_\_.

The **diameter** is

The difference between a circle and a sphere is

### **When Circles and Spheres Meet**

Circles can meet in \_\_\_\_\_ ways, illustrated below.

Spheres can meet in \_\_\_\_\_ ways, illustrated below.

An example of a problem in which we might care about the intersection of circles and spheres:

Note: A **disk** is different from a circle. It is

An example of a problem involving disks or intersections of disks:

An example of a problem involving circles or intersections of circles: