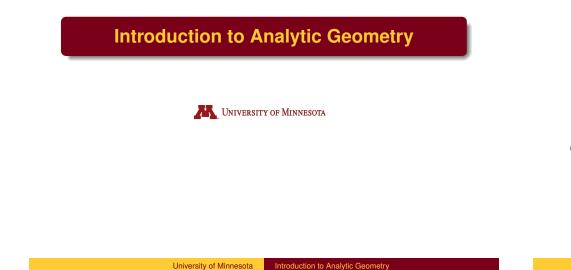
Preliminaries and Objectives



Preliminaries

- Cartesian Coordinate System
- Slope Formula
- Pythagorean Theorem

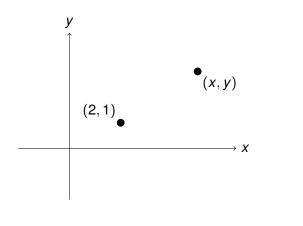
Objectives

• Write equations involving arbitrary points

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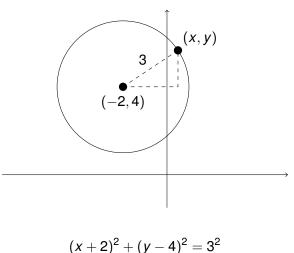
Arbitrary Points



 $\frac{2}{3}=\frac{y-1}{x-2}$

Equation of a Circle

Find the set of all points that are a distance of 3 from the point (-2, 4).



- Let (x, y) be an arbitrary point
- Write equations corresponding to the geometric description



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