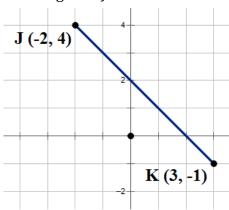
Integrated Math 3		
Unit 1:	Analytic Geometry	
13		

Name:	
Date:	Period:

Objective: Determine the distance between two points.

Warm Up:

Find the length of \overline{JK}



Key terms:

Pythagorean theorem:

Distance formula:

Examples:

1. Determine the distance between the following points.

B.)
$$(-1, 4)$$
 and $(-4, 8)$

- 2. Given the points and a distance, find the value of the variable.
 - a. (0,1), (x,4) and $d = \sqrt{34}$
- b. (4, -8), (10, y) and $d = 5\sqrt{5}$

3. Classify the triangle by side lengths using the given coordinates: (4,6), (6,1) and (1,3).