Integrated Math 3
Unit 1: Analytic Geometry

### 1.3 Worksheet

Name:

Date: $\qquad$ Period: $\qquad$

## Distance \& Pythagorean Theorem

Find the distance between each pair of points. Keep your answers exact.

2)

3) $(-8,10),(-6,7)$
4) $(-5,6),(8,-4)$
5) Given the points $(-6,-10)$ and $(-2, y)$ and a distance of 4 , find the value of $y$.
$6)$ Classify the triangle by side lengths using the given coordinates: $(0,0),(5,1)$, and $(-1,5)$.

## Critical Thinking:

7) Name a point that is $\sqrt{2}$ away from $(-1,5)$.
