

**Intro to Geometry**

**Unit One B: Parallelograms #2 (HW30)**

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_\_

Given: A(-4, -8), B(-2, 4), C(3,10), and D(1, -2)

1. Using the definition of a parallelogram, determine whether the figure is one.

2. Find AD. (length)

3. Find the equation of the line going through points A and B.

4. Find the equation of a line perpendicular to  $\overline{AB}$ , passing through (6,-5).

5. Find the equation of a line parallel to  $\overline{AB}$ , passing through (3, 7).