GEOMETRY

6.6 Trapezoids

G.QP.2 Prove that given quadrilaterals are parallelograms, rhombuses, rectangles, squares, or trapezoids. Include coordinate proofs in the coordinate plane.



Ex 1:

A cold frame is placed over plants on the ground to protect them during cold weather. The top of the frame is glass to allow the sunlight in and to hold the heat. The cover slants downward to the south to let in as much sunlight as possible. Identify the shape of each quadrilateral used to construct the cold frame shown.



Date

Ex 2:

ABCD is a quadrilateral with vertices A(-4, -10), B(-5, -3), C(-1, 1), and D(6, 0)

a. Verify that *ABCD* is a trapezoid.



b. Determine whether *ABCD* is an **isosceles** trapezoid.



