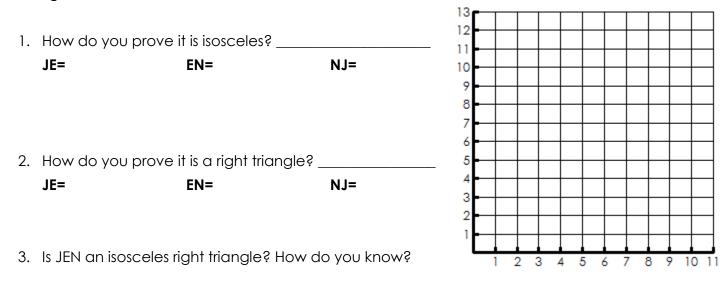
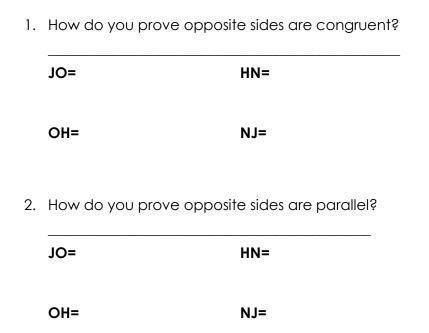
Day 1 – Proving All Parallelograms

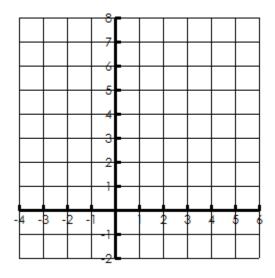
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1. The vertices of triangle JEN are J(2, 10), E(6, 4), and N(12, 8). Prove that JEN is an isosceles right triangle.



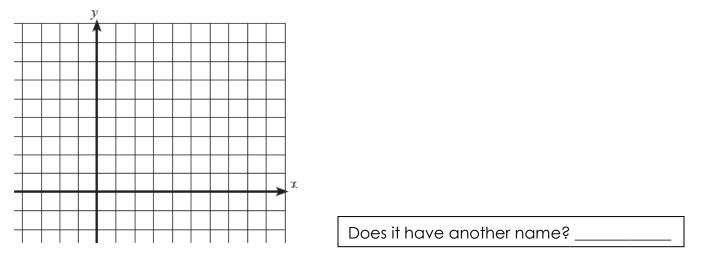
2. A parallelogram has opposite sides congruent and parallel. The vertices of quadrilateral JOHN are J(-3, 1), O(3, 3), H(5, 7), and N(-1, 5). Prove that JOHN is a parallelogram.



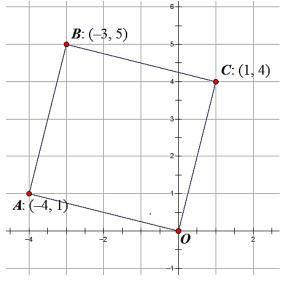


3. Is JOHN a parallelogram? How do you know?

3. Prove that quadrilateral *LEAP* with the vertices L(-3,1), E(2,6), A(9,5) and P(4,0) is a parallelogram.



4. The points O(0,0), A(-4,1), B(-3,5), and C(1,4) are the vertices of parallelogram *OABC*. Is this parallelogram a rectangle? Support you answer.



5. Given: A(-2,2), B(6,5), C(4,0), and D(-4,-3). Prove: ABCD is a parallelogram but <u>not</u> a rectangle.

