BECA / Dr. Huson / 10th Grade Geometry   Name:
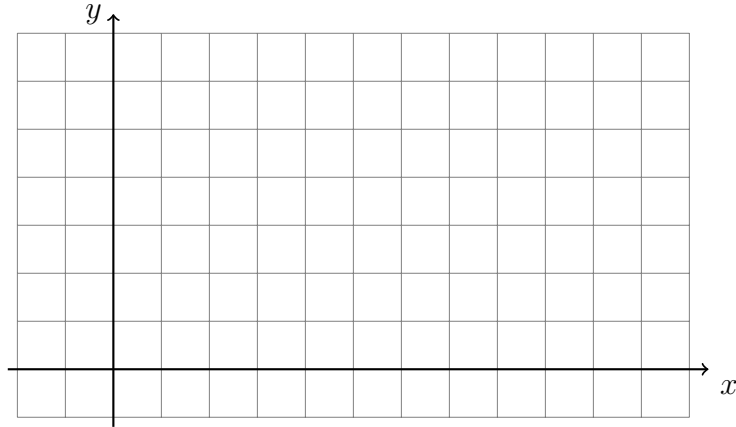
16 November 2018

Do Now: Graphing the features of a parallelogram

1. Given parallelogram $SNOW$ with $S(2,1), N(7,1), O(10,5), W(5,5)$

   (a) Sketch $SNOW$, labeling the vertices.

   (b) Find the area of the parallelogram.

   (c) Find the length of each side of the parallelogram.

   (d) Find the slopes of the diagonals, $\overline{SO}$ and $\overline{NW}$.

   (e) Are the diagonals parallel, perpendicular, or neither? Justify your answer.