

11/3/06 Objective: TSWBAT graph rotations

Vocabulary

① rotation - a transformation that turns a figure about a fixed point

② center of rotation - the fixed point about which a figure is turned.

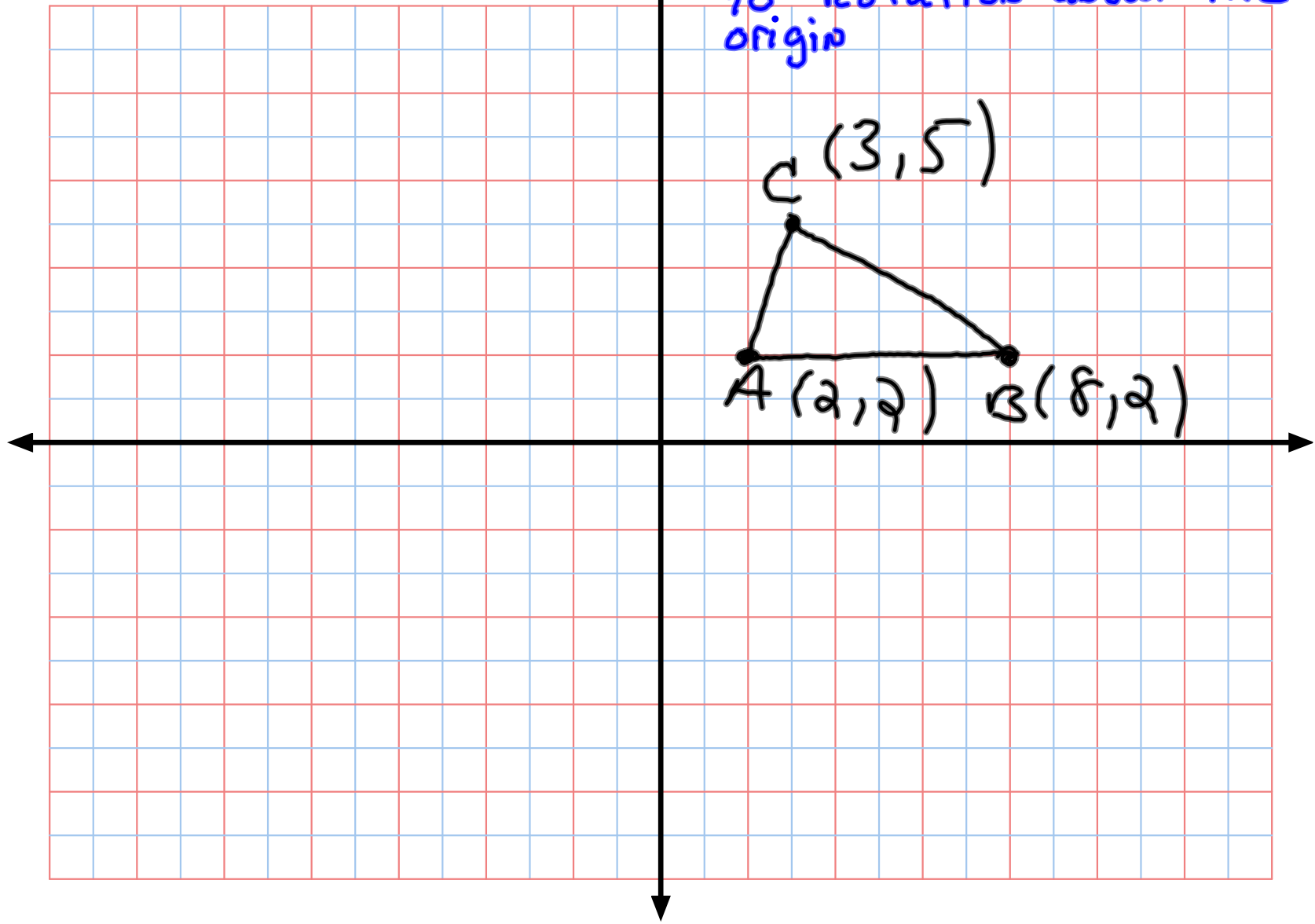
③ angle of rotation - The number of degrees a figure rotates.

* In your text all rotations are clockwise

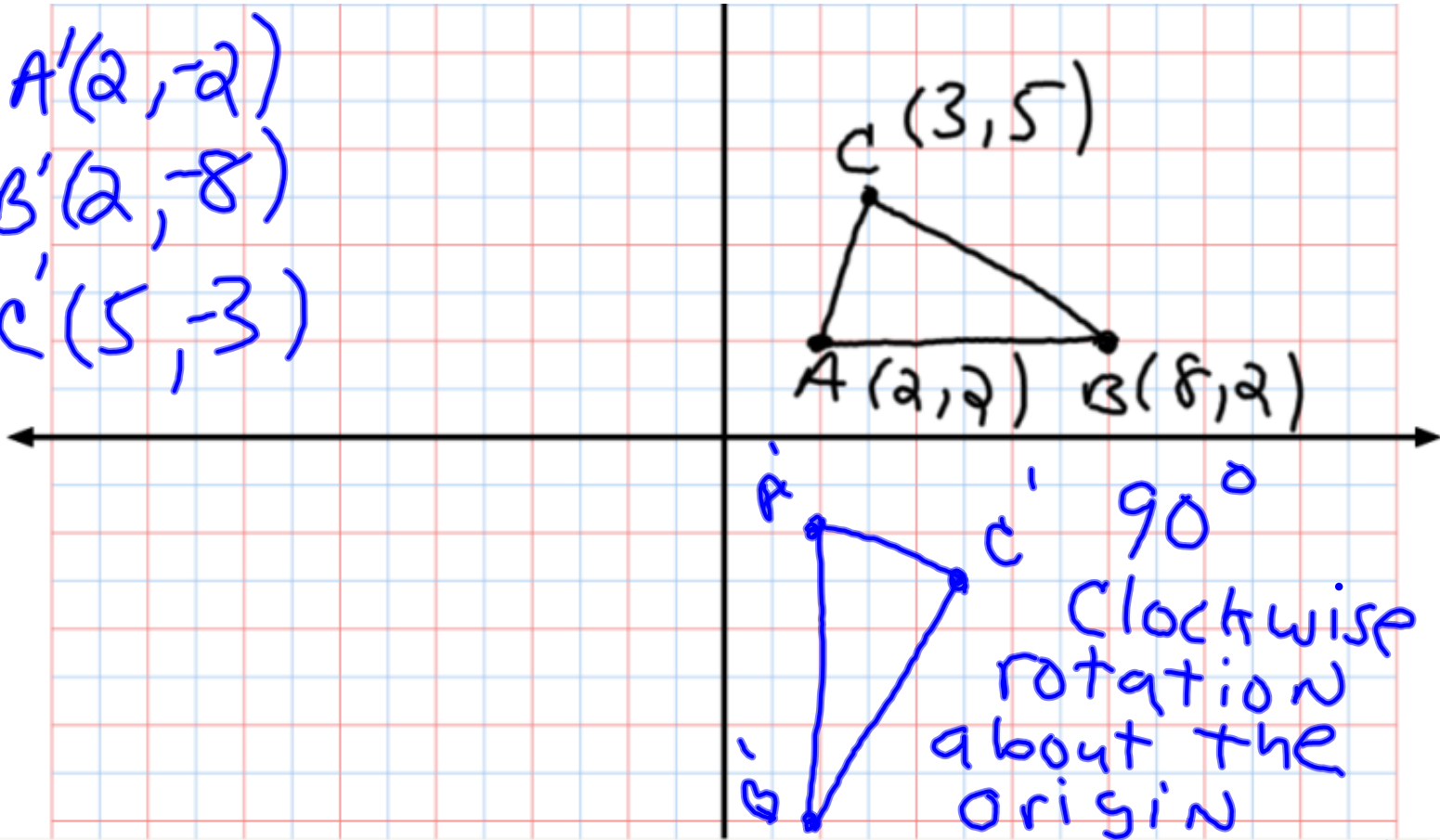
④ rotational symmetry - when a figure can be rotated less than 360° and fit exactly on top of the original figure

Graphing Rotations

Graph $\triangle ABC$ and its image after a 90° Rotation about the origin



$A'(2, -2)$
 $B'(2, -8)$
 $C'(5, -3)$



start

Chapter 3

pdfs

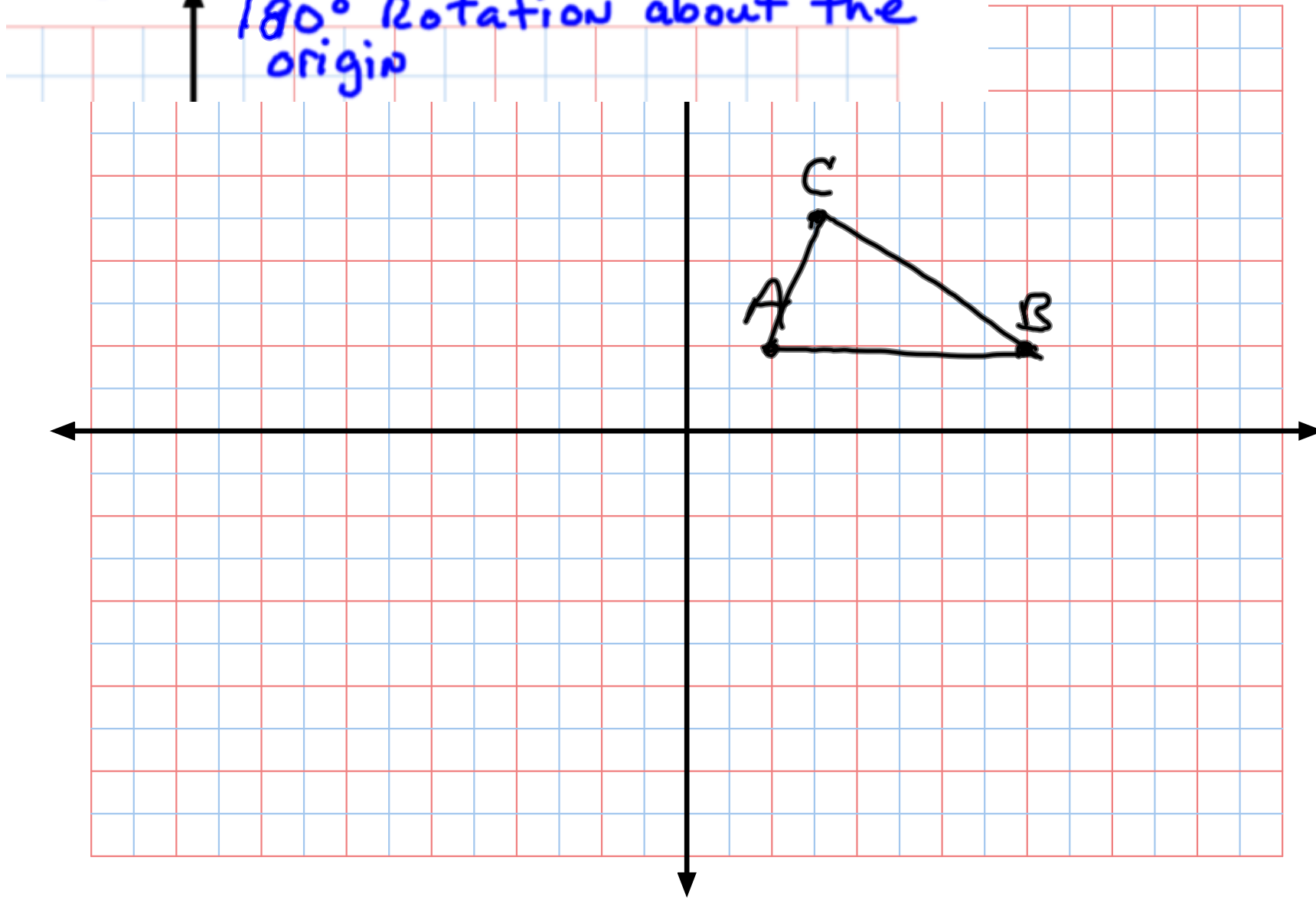
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Graph $\triangle ABC$ and its image after a 180° Rotation about the origin

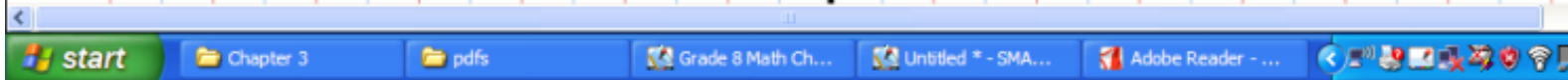
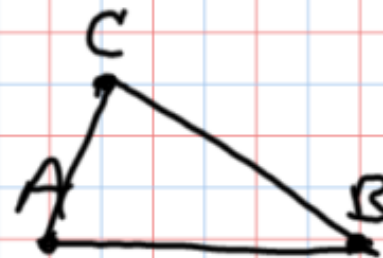


$$A''(-2, -2)$$

$$B''(-8, -2)$$

$$C''(-3, -5)$$

180° clockwise
rotation about
the origin



90° Counterclockwise
about the origin

