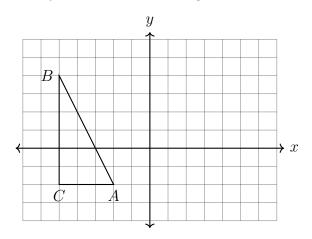
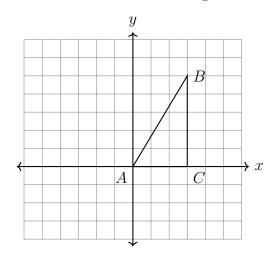
1.15 Do Now: Transformations and constructions

1. Reflect $\triangle ABC$ across the y-axis. Label the image $\triangle A'B'C'$.



2. Rotate $\triangle ABC$ 90° counterclockwise around the origin. Label the image $\triangle A'B'C'$.



- 3. Use the function f(x) = 8x + 3 to answer the questions.
 - (a) What is f(0)?

(c) Solve for x if f(x) = -13.

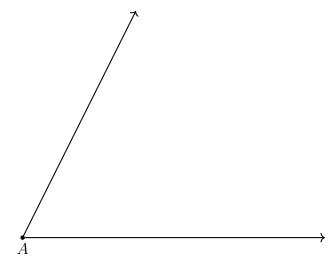
(b) Find $f(\frac{1}{4})$

Constructions: Use only a compass and straightedge

4. Construct an equilateral triangle with one side \overline{AB} . [Leave all construction marks.]



5. Construct an angle bisector the given angle A. [Leave all construction marks.]



6. Construct a perpendicular bisector of side \overline{AC} of the triangle. Label the midpoint of \overline{AC} as M. Connect the points M and B with a line, a median of the triangle.

