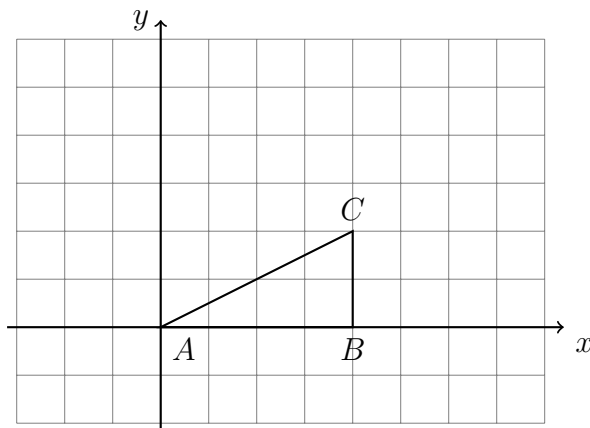


Name:

Do Now: Trigonometry practice

1. On the graph below, dilate the triangle ABC by a factor of $\frac{3}{2}$ centered on the origin.



2. Express each value to *the nearest tenth*.

(a) $\tan 76^\circ =$

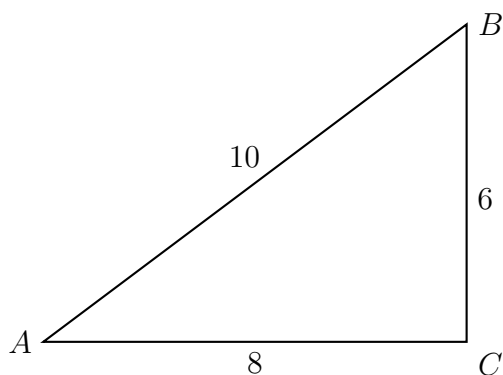
(c) $\tan 14^\circ =$

(b) $\cos 36^\circ =$

(d) $\sin 44^\circ =$

3. $\triangle ABC$ has sides of length $BC = 6$, $AC = 8$, and $AB = 10$ as shown.

Use the Pythagorean theorem to show that $\triangle ABC$ is a right triangle with $m\angle C = 90^\circ$.



(a) Find $\tan A =$

(b) Find $\cos A =$

Early finishers: Construction for project due Friday

Using a compass and straightedge, construct the line of reflection over which triangle ABC reflects onto triangle $A'B'C'$. (Leave all construction marks.)

