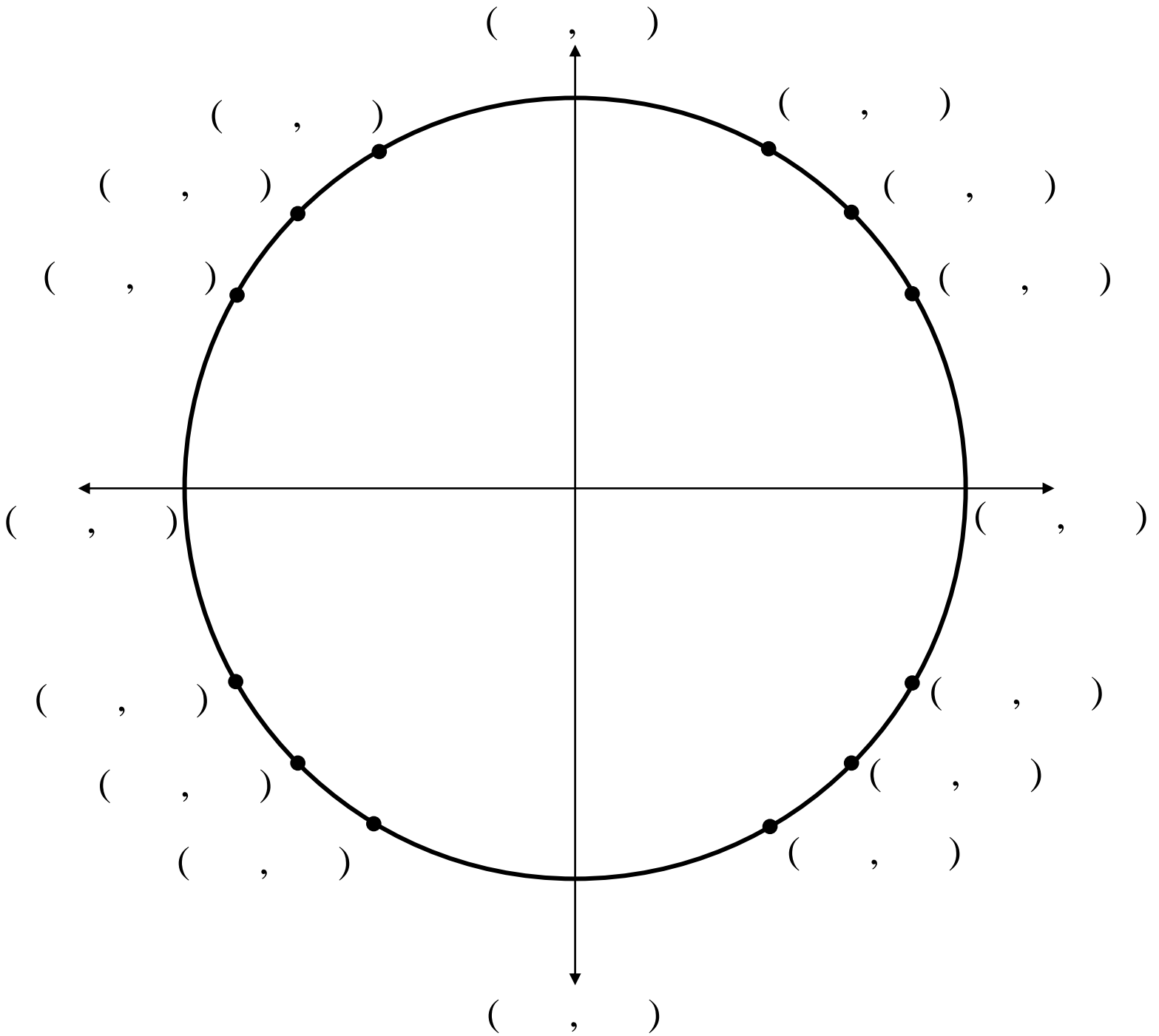
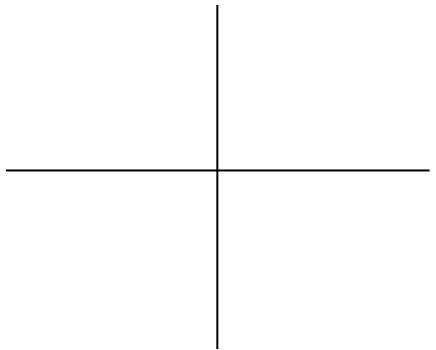


# The Unit Circle

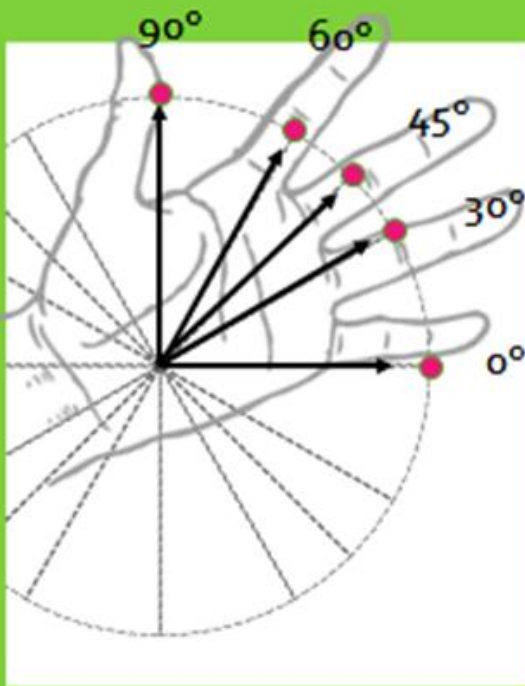


(x, y)



# Hand Trick

- ONLY for Quadrant 1
- ONLY use your left hand, palm up.



1) Fold down the finger that corresponds to the point you want to know.

2) Use the following formula:

$$(x, y)$$

$$(\cos \theta, \sin \theta)$$

$$\left( \frac{\sqrt{\text{top.fingers}}}{2}, \frac{\sqrt{\text{bottom.fingers}}}{2} \right)$$

Folded Finger

3) Simplify!!!

4) Flip your arm, so now you are looking at the back of your hand

$$\tan \theta = \frac{\sqrt{\text{top.fingers}}}{\sqrt{\text{bottom.fingers}}}$$