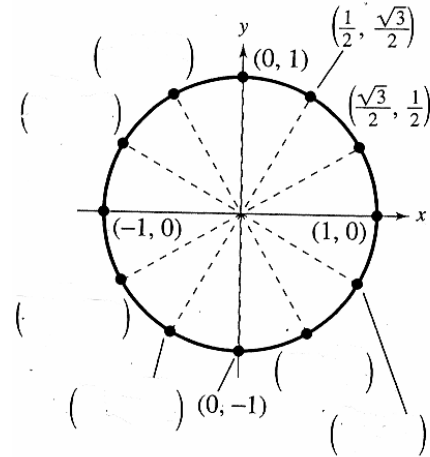
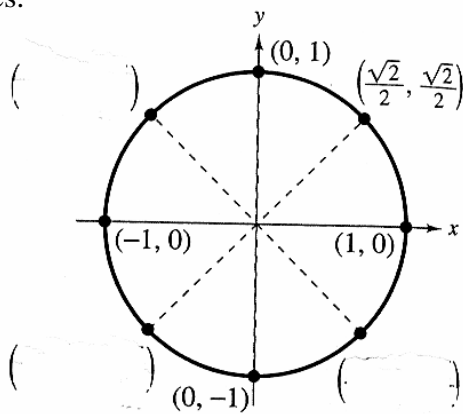


Directions: Work in groups of 2-3 people. You may need extra paper.

- 1** Fill in the missing (x, y) coordinates on the unit circle without using your book or notes.



- 2** The hour hand on a clock is 7cm long. Calculate the linear and angular speeds of the tip of the hour hand.

- 3** A car with wheels of radius 0.3m is cruising at $4 \frac{m}{s}$. What is the angular velocity of the wheels?

4 $\sin\left(\frac{5\pi}{4}\right) =$ $\csc(9\pi) =$ $\tan(120^\circ) =$

5 Give all of the θ values for which $\sin(\theta) = \frac{\sqrt{3}}{2}$

6 Give all of the θ values for which $\tan(\theta) = -1$