

## Unit Circle HW/cw

For each problem below, sketch each angle in the unit circle and draw the resulting reference right triangle. Label the sides of the right  $\Delta$  using the rules for 45-45-90 and 30-60-90 right triangles. Then answer the question.

①  $\csc 45^\circ =$

②  $\sec 30^\circ =$

③  $\sin \frac{2\pi}{3} =$

④  $\tan \frac{3\pi}{4} =$

⑤  $\cos \frac{4\pi}{3} =$

⑥  $\cot \frac{7\pi}{6} =$

⑦  $\csc \left(-\frac{5\pi}{3}\right) =$

⑧  $\sec (-30^\circ) =$

⑨  $\cot \left(-\frac{3\pi}{4}\right) =$

⑩  $\sin (4\pi) =$