## Warm up

What quadrant am I in?

1. $\frac{3 \pi}{8}$
2. $\frac{5 \pi}{4}$
3. $-295^{\circ}$
4. $460^{\circ}$
5. $-\frac{11 \pi}{3}$
6. 5.5

Find one positive and one negative coterminal angle for the following:
7. $\frac{2 \pi}{9}$
8. $-400^{\circ}$


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### 4.3 Right Triangle Trig SOH CAH TOA

Finding six trig ratios
Finding theta given a ratio




Given $\sin \theta=\frac{3}{4}$, find the other 5 trig ratios

$$
\begin{array}{ll}
\sin \theta=\frac{3}{4} & \csc \theta=\frac{4}{3} \\
\cos \theta=\frac{\sqrt{7}}{4} & \sec \theta=\frac{4}{\sqrt{7}} \\
\tan \theta=\frac{3}{\sqrt{7}} & \cot \theta=\frac{\sqrt{7}}{3}
\end{array}
$$

Now let's work backwards!
Given $\sin \theta=\frac{1}{2}$, find $\theta$
in degrees $30^{\circ}$
in radians $\frac{\pi}{6}$


