$$
\text { use } \pi=180^{\circ}
$$

## Sine and Cosine Curves

 Name:1. Make an equation as a sine curve and make a second equation as a cosine curve.



$\qquad$

Cosine: $\qquad$

Sine:

Cosine: $\qquad$

Sine: $\qquad$

Cosine: $\qquad$


1. Make an equation as a sine curve and make a second equation as a cosine curve.


2


3


Sine: $y=3 \sin x+1$

$$
\text { cosine: } y=3 \cos \left(x-90^{\circ}\right)+1
$$

Sine:

$$
\begin{aligned}
& y=-2 \sin 3 x+1 \\
& \text { OR } y=2 \sin 3\left(x \pm 180^{\circ}\right)+1
\end{aligned}
$$

cosine: $y=2 \cos 3\left(x-90^{\circ}\right)+1$
with positive" $_{\text {"al }}^{\text {par }}$


Sine: $\qquad$
cosine: $y=\cos 2\left(x-45^{\circ}\right)-1$
$\zeta$


6


$$
d=-90^{\circ}
$$

for sine

