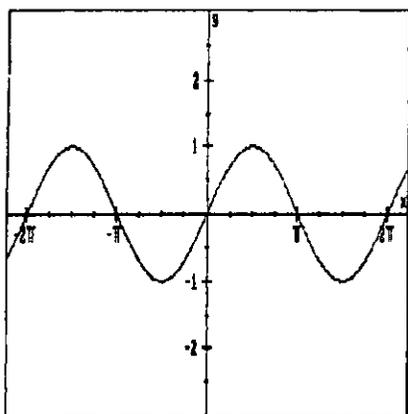


Trig Transformations

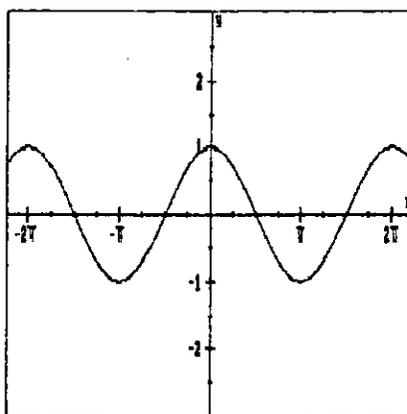
NAME _____

Find 2 (two) equations for each graph. Use SINE for the 1st equation and COSINE for the 2nd equation.



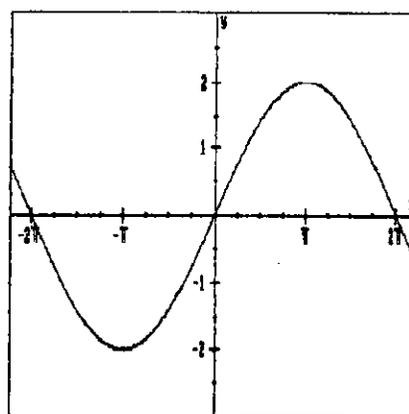
1) $y = \sin x$

$y = \cos(x - \frac{\pi}{2})$



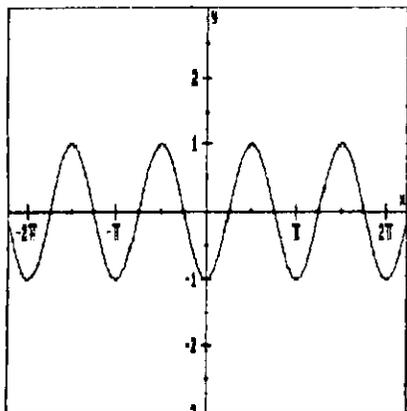
2) $y = \cos x$

$y = \sin(x + \frac{\pi}{2})$



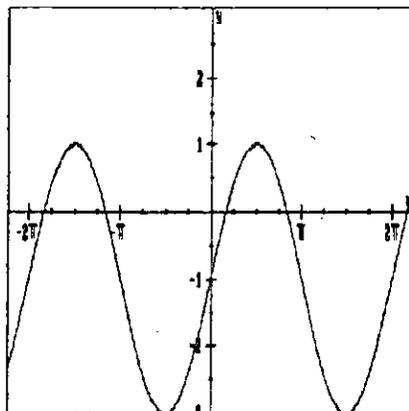
3) $y = 2 \sin \frac{1}{2}x$

$y = 2 \cos(\frac{1}{2}x - \frac{\pi}{2})$



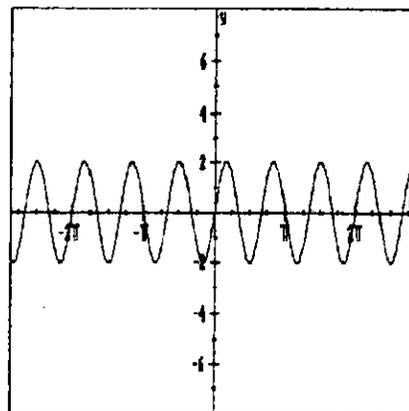
4) $y = -\cos(2x)$

$y = -\sin(2x + \frac{\pi}{2})$



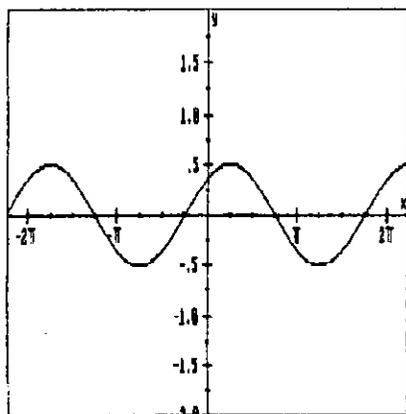
5) $y = 2 \sin x - 1$

$y = 2 \cos(x - \frac{\pi}{2}) - 1$



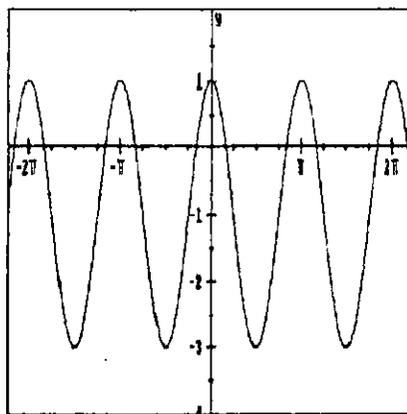
6) $y = 2 \sin(3x)$

$y = 2 \cos(3x - \frac{\pi}{2})$



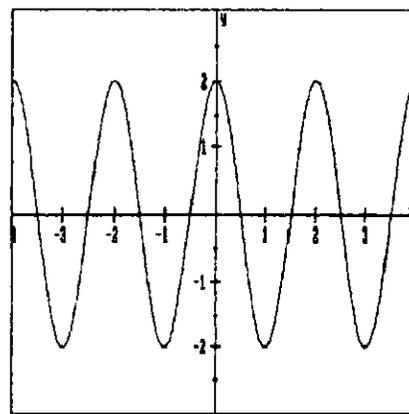
7) $y = \frac{1}{2} \cos(x - \frac{\pi}{4})$

$y = \frac{1}{2} \sin(x + \frac{\pi}{4})$



8) $y = 2 \cos(2x) - 1$

$y = 2 \sin(2x + \frac{\pi}{2}) - 1$



9) $y = 2 \cos(\pi x)$

$y = 2 \sin(\pi x + \frac{\pi}{2})$