Name: _____

1. Solve for the b in the equation $10 = 2\pi/b$

$1/10 = b/2\Pi$
$b = 20\ \Pi$

2. Set up the sine equation for the value you previously solved for in question 1. Hint: $y = \sin(bx)$

$Y = \sin(bx)$
$Y = \sin(20\Pi x)$

3. You are given that the frequency is 1/period, what is the b value for $y = \sin(bx)$ produced by frequency of the A = 440HZ on a piano?

Frequency = 1/period
Frequency = $1/2\Pi/b$
Frequency = $b/2\Pi$
$440 = b/2\Pi$
$440(2\Pi) = b$