Name: Key

Precalculus
Quiz over 5.4
Phase Shift

Write in standard form.

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

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

2) $y = 3\cos(\frac{2x}{3} - \frac{\pi}{4})$

$y = 3\cos\frac{2}{3}(x - \frac{3\pi}{8})$

3) $y = \sin(4x + \frac{\pi}{5})$

$y = \sin 4(x + \frac{\pi}{20})$

4) Period __π__ __3π__ __$\frac{\pi}{2}$__
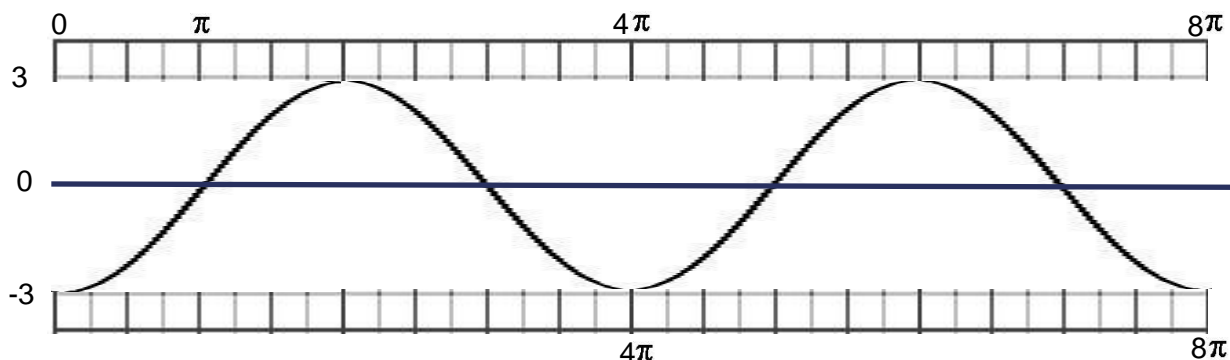
5) Amp __2__ __3__ __1__

6) PS __$\frac{\pi}{4}$ to the right__ __$\frac{3\pi}{8}$ to the right__ __$\frac{\pi}{20}$ to the left__

Graph across the entire given coordinate system.

7) function: sin(x), amplitude = 3, period = 4π, phase shift = π to the right.

function in standard form: $y = 3\sin\frac{1}{2}(x - \pi)$

8) function: cos(x), amplitude = 2, period = $\frac{4\pi}{3}$, phase shift = $\frac{\pi}{6}$ to the right.

function in standard form: $y = 2\cos\frac{3}{2}(x - \frac{\pi}{6})$