Name: —————————————————————— Date: ——————————

Instructions: Please complete the following problems.

Problem 1. What is the period of the sin and cos function?

Problem 2. Determine the amplitude of $y = -6\sin(x)$

Problem 3. What is the phase shift of $y = \cos(2x - \pi)$?

Problem 4. What is the phase shift of $y = \sin\left(\frac{1}{6}x\right)$?

Problem 5. What is the vertical shift of $y = \sin\left(x - \frac{\pi}{2}\right) + 7$?

Problem 6. Graph $y = \sin\left(\frac{1}{2}x\right)$

Problem 7. Graph $y = -\cos(x)$

Problem 8. Graph $f(x) = -5\sin\left(x - \frac{\pi}{3}\right)$

Problem 9. Graph $y = 2\cos\left(3x + \frac{\pi}{2}\right) - 1$