7-5 Worksheet **Name:**

1) List transformations

a) $y = \sin x$

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

c) $y = \sin x + 3$

d) $y = \sin(2x)$

e) $y = 2\sin x$

2) Identify the amplitude, period, and phase shift (left or right) of each function below.

a) $y = \cos(4x) + 1$

b) $y = -3\cos\frac{1}{2}(x + \pi)$

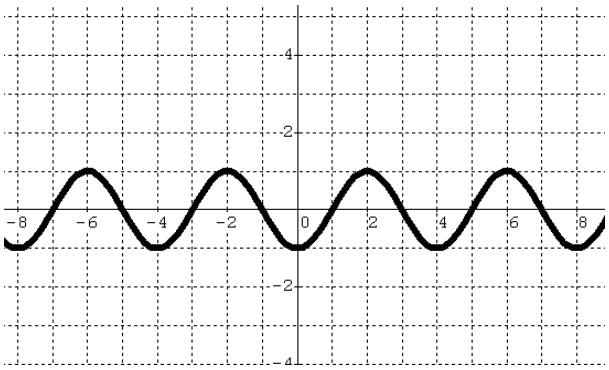
c) $y = 2\sin\left(\frac{\pi}{3}(x - 2)\right) - 4$

d) $y = -\frac{1}{2}\tan\big(3(x - 4)\big) - 9$

c) Multiple choice:

(1) $y = \cos(4x) + 1$

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

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

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