

Name _____

Class Period _____

For each of the following a) write in transformation form b) Find the Period c) sketch the graph d) find the domain e) find the range.

1. $f(x) = 3\sin\left(x - \frac{\pi}{2}\right) - 2$

3. $f(x) = 5\sin\left(-\frac{\pi}{4}x + \frac{3\pi}{4}\right) - 6$

2. $f(x) = -2\cos\left(2x - \frac{\pi}{2}\right) - 2$

4. $f(x) = 3 + 4\cos\left(\frac{\pi}{2} + \frac{\pi}{6}x\right)$