Accel. PreCalculus Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Graphing Sine Functions Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Putting it all together

For each of the following functions, state the amplitude, period, any vertical or phase shifts, and sketch one period.

1. $y=2\sin(\left(2θ+\frac{π}{2}\right)-2)$ 2. $y=\frac{1}{2}\sin(\left(\frac{θ}{2}+\frac{π}{4}\right)+1)$

3. $y=3\sin(\left(2θ-\frac{π}{3}\right)-2)$ 4. $y=3\sin(\left(θ+\frac{3π}{4}\right)-1)$

5. $y=4\sin(\left(4θ+\frac{π}{3}\right)+1)$ 6. $y=3\sin(\left(2θ+\frac{2π}{3}\right)-2)$