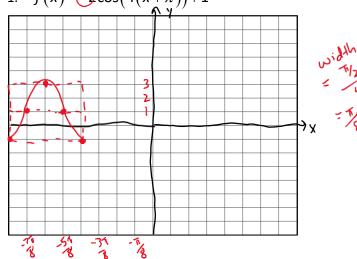
Graphing Sine & Cosine (Solution)

1. $f(x) = \cos(4(x+\pi)) + 1$



Amplitude:

211 7

Period: $\frac{21}{4} = \frac{1}{2}$

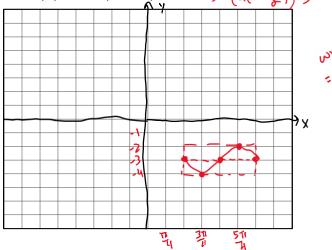
Phase Shift: _______

Vertical Shift:

5 Main Points:

(等一)(智力(智力(智力)

2. $f(x) = -\sin(2x - \pi) - 3 = -\sin(2(x - \pi)) - 3$



Amplitude:

Period: $\frac{5}{4} = \frac{1}{4}$

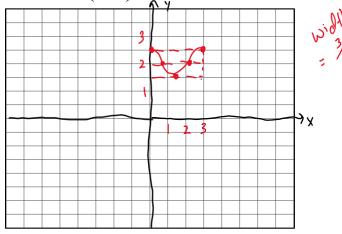
Phase Shift: 2

Vertical Shift: _____3

5 Main Points:

(智-3) (智-3) (智-3) (智-3)

 $3. \quad y = \frac{1}{2} \cos \left(\frac{2\pi}{3} x \right) + 2$



Amplitude: 2

Period: 27/3 - 3

Phase Shift:

Vertical Shift: 2

5 Main Points:

(0,2.5),(=,2),(=,1.5),(=,2),(=,2.5)