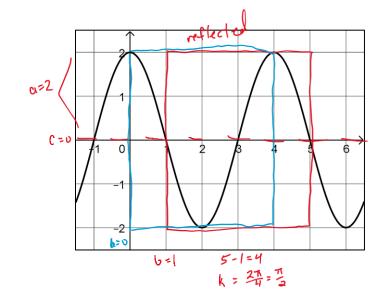
## **Modeling Sine & Cosine (Solution)**

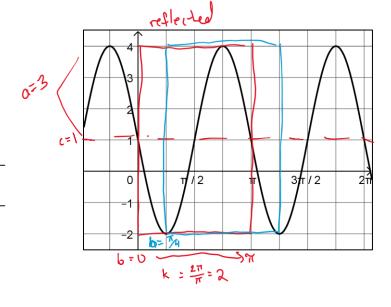
- 1. Midline:
  - Amplitude:
  - Period:
  - Sine Equation:  $y = -2 \sin(\frac{\pi}{2}(x-1)) + 0$
  - Cosine Equation: Y= 2005 (7/2 X)

    Equations may

    vary



- Midline:
  - Amplitude:
  - Period:
  - Sine Equation:  $y = -3 \sin(2x) + 1$
  - Cosine Equation:  $y = -3 \cos \left( \frac{2(x \frac{\pi}{4})}{x + 1} + 1 \right)$ Equations may



- 3. Midline:
  - Amplitude:
  - Period:
  - y= 4sm(\$(x+])-1 Sine Equation:
  - Cosine Equation:  $y = \frac{1}{4} \cos \left(\frac{1}{4} \left(x \frac{\pi}{2}\right)\right) 1$

