

Calculations:

$$m = \frac{\Delta y}{\Delta x} = \frac{4\pi^2}{g}$$

$$\frac{1.782 - 2.387}{0.706 - 0.583} = \frac{4\pi^2}{g}$$

$$-4.92 = \frac{4\pi^2}{g}$$

$$g = -8.03$$

$$\% \text{ Error} = \frac{|O - A|}{|A|} \times 100$$

$$\frac{|-8.03 - (-9.81)|}{|-9.81|} \times 100 = 18.1\%$$