

$$1.57 = 2(3.14)\sqrt{\frac{L}{32}}$$

$$0.25 = \sqrt{\frac{L}{32}}, \text{ so } (0.25)^2 = \left(\sqrt{\frac{L}{32}}\right)^2$$

$$0.0625 = \frac{L}{32}, \text{ so } L = 2$$