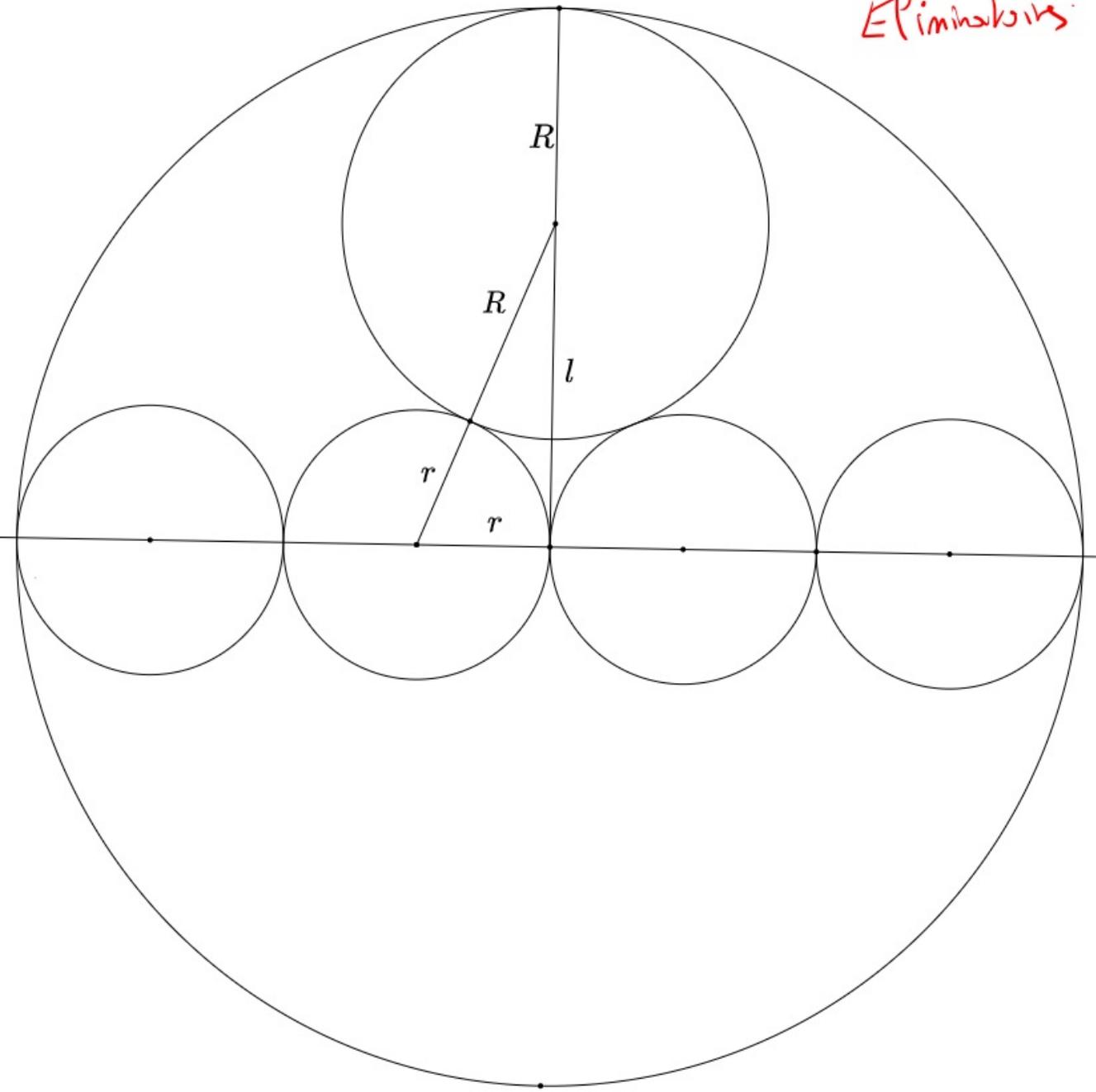


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$$l^2 + r^2 = (R + r)^2 \quad (1)$$

$$l + R = 4r \quad (2)$$

$$(2) \Leftrightarrow l = 4r - R$$

$$(1) \Leftrightarrow (4r - R)^2 + r^2 = R^2 + 2Rr + r^2$$

$$\Leftrightarrow 16r^2 - 8Rr + R^2 + r^2 = R^2 + 2Rr + r^2$$

$$\Leftrightarrow 16r^2 - 8Rr = 2Rr$$

$$\Leftrightarrow 16r^2 = 10Rr$$

$$\Leftrightarrow \frac{16}{10} = \frac{R}{r} \Leftrightarrow \boxed{\frac{R}{r} = \frac{8}{5}}$$