

$$r_{in} = 2 R_{\pi} = \frac{5 h}{5 h}$$

Rot = 1. h |  $r_{o_{11}} | | r_{o_{9}} (1 + 9_{m_{9}} (r_{s_{9}} | r_{o_{1}})) = \frac{9,1 h \pi}{39 \text{ meq}}$ 

$$\frac{\partial}{\partial x} = + \frac{\partial}{\partial x} (Rout) = 3641$$

$$\frac{\partial}{\partial x} = \frac{\partial}{\partial x} (Rout) = \frac{3641}{3641}$$

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سن و مناسفاد بایاس سال ایواددارد

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$$\frac{R_{1}}{\sqrt{n}} = \frac{R_{1}}{\sqrt{n}} = \frac{R$$

$$\overline{V}_{0} = \overline{\beta} R_{1} \overline{V}_{1} z$$

$$\frac{\overline{\beta}^{2} R_{1} V_{1} h}{\overline{\Sigma}_{1} \overline{\beta} R_{1}}$$

$$r_2 = \frac{\beta}{I_{c_1}}$$

$$\frac{7}{c} = \frac{\sqrt{6}}{8k} \times 1k \cdot \sqrt{7}$$

$$\frac{1.\sqrt{6}}{8k} \times 1k \cdot \sqrt{7}$$

$$\frac{1.\sqrt{6}}{8} \times 1k \cdot \sqrt{7}$$

$$\frac{1.\sqrt{6}}{8} \times 1k \cdot \sqrt{7}$$

$$\frac{1.\sqrt{6}}{8} \times 7k \cdot \sqrt{7}$$

Alu

$$\frac{\sqrt{0}-\sqrt{1}h}{4h} + \frac{\sqrt{0}}{12h} + \frac{10}{80} \frac{\sqrt{1}h}{5k} = \frac{\sqrt{0}(\frac{1}{3h})z}{\sqrt{0}(z-9),75} \sqrt{h}$$

$$\sqrt{in}\left(\frac{31}{4h} + \frac{1}{8h}\right) = 1 \rightarrow R_{1n} = 126,98 \stackrel{\triangle}{=} 1252$$

اع سيرا

- 1 - 1,8+2,5= + 7,312 |

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$$A = \frac{-6k2}{2.5L} = -400$$

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$$\frac{V.}{-\frac{Vid}{L}} = -\frac{320}{150}$$

$$\frac{V.}{-\frac{Vid}{L}} = -\frac{320}{160}$$

$$\frac{V.}{\sqrt{Vid}} = \frac{160}{100}$$