



$$u_2 = u_1 + 4 \Rightarrow \zeta_2 = \zeta_1 + \frac{4}{l}$$

$$= \zeta_1 + \frac{4}{20}$$

$$z_1 = z(s, \zeta_1) = 12 \zeta_1^2 (7 \zeta_1^2 - 10 \zeta_1 + 3)$$

$$z_2 = z(s, \zeta_2) = 12 \zeta_2^2 (7 \zeta_2^2 - 10 \zeta_2 + 3)$$

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$$z_1 = z_2$$

$$12 \zeta_1^2 (7 \zeta_1^2 - 10 \zeta_1 + 3) = 12 \zeta_2^2 (7 \zeta_2^2 - 10 \zeta_2 + 3) \quad / : 12$$

$$\zeta_1^2 (7 \zeta_1^2 - 10 \zeta_1 + 3) = \left(\zeta_1 + \frac{1}{5} \right)^2 (7 \left(\zeta_1 + \frac{1}{5} \right)^2 - 10 \left(\zeta_1 + \frac{1}{5} \right) + 3)$$

$$= \left(\zeta_1^2 + \frac{2}{5} \zeta_1 + \frac{1}{25} \right) (7 \zeta_1^2 + \frac{14}{5} \zeta_1 + \frac{7}{25} - 10 \zeta_1 - 2 + 3)$$

$$= \left(\zeta_1^2 + \frac{2}{5} \zeta_1 + \frac{1}{25} \right) (7 \zeta_1^2 - \frac{36}{5} \zeta_1 + \frac{32}{25})$$

$$7 \zeta_1^4 - 10 \zeta_1^3 + 3 \zeta_1^2 = 7 \zeta_1^4 - \frac{36}{5} \zeta_1^3 + \frac{32}{25} \zeta_1^2 + \frac{14}{5} \zeta_1^3 - \frac{72}{25} \zeta_1^2 + \frac{64}{125} \zeta_1$$

$$+ \frac{7}{25} \zeta_1^2 - \frac{36}{125} \zeta_1 + \frac{32}{625}$$

$$\frac{28}{5} \zeta_1^3 - \frac{108}{25} \zeta_1^2 + \frac{28}{125} \zeta_1 + \frac{32}{625} = 0 \quad / \cdot \frac{625}{4}$$

$$875 \zeta_1^3 - 675 \zeta_1^2 + 35 \zeta_1 + 8 = 0, \quad \zeta \in \left[0, \frac{60}{7} \right]$$

$$p \neq 0 \quad q \neq 875$$

$$p \in \{ \pm 1; \pm 2; \pm 4; \pm 8 \} \quad q \in \{ \pm 1; \pm 5; \pm 25 \}$$

$$\frac{p}{q} \in \left\{ \pm 1, \pm \frac{1}{5}, \pm \frac{1}{25}, \pm 2, \pm \frac{2}{5}, \pm \frac{2}{25} \right\}$$

$$f\left(\frac{1}{5}\right) = -5$$

$$f\left(\frac{4}{5}\right) = 52$$

$$f\left(-\frac{1}{5}\right) = -33$$

$$f\left(\frac{4}{25}\right) = -0,096$$

$$f\left(\frac{1}{25}\right) = 8,376$$

$$f\left(\frac{2}{25}\right) = 6,928$$

$$f\left(\frac{2}{5}\right) = -30$$

$$f\left(-\frac{2}{5}\right) = -170$$