

Aufgaben zu quadratischen Gleichungen – Mit Brüchen

Bestimmen Sie die Unbekannten.

Aufgaben:

$$7i^2 - \frac{154}{15}i + \frac{56}{15} = 0$$

$$-2s^2 - \frac{17}{3}s + \frac{14}{3} = 0$$

$$5u^2 + \frac{25}{6}u - \frac{5}{6} = 0$$

$$-\frac{1}{7}j^2 + \frac{11}{28}j - \frac{3}{14} = 0$$

$$\frac{3}{4}z^2 - \frac{24}{5}z - \frac{63}{20} = 0$$

$$-3n^2 + \frac{9}{5}n - \frac{6}{25} = 0$$

$$\frac{8}{7}p^2 - \frac{20}{7}p + \frac{12}{7} = 0$$

$$\frac{4}{3}m^2 + \frac{64}{15}m + \frac{256}{75} = 0$$

$$-2v^2 + \frac{13}{2}v - \frac{3}{2} = 0$$

$$-\frac{7}{6}d^2 - \frac{91}{30}d + \frac{98}{15} = 0$$

$$i^2 + \frac{11}{8}i + \frac{7}{16} = 0$$

$$\frac{2}{7}a^2 - \frac{3}{7}a + \frac{1}{7} = 0$$

$$-\frac{8}{7}i^2 + \frac{236}{147}i - \frac{80}{147} = 0$$

$$\frac{1}{4}a^2 - \frac{11}{16}a - \frac{3}{16} = 0$$

$$-\frac{7}{4}m^2 + \frac{28}{3}m - \frac{28}{3} = 0$$

$$\frac{3}{4}o^2 + \frac{1}{2}o - \frac{1}{4} = 0$$

Lösungen:

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Lösungen:

$$i_1 = \frac{4}{5} ; i_2 = \frac{2}{3}$$

$$s_1 = -\frac{7}{2} ; s_2 = \frac{2}{3}$$

$$u_1 = \frac{1}{6} ; u_2 = -1$$

$$j_1 = \frac{3}{4} ; j_2 = 2$$

$$z_1 = 7 ; z_2 = -\frac{3}{5}$$

$$n_1 = \frac{2}{5} ; n_2 = \frac{1}{5}$$

$$p_1 = \frac{3}{2} ; p_2 = 1$$

$$m_1 = -\frac{8}{5} ; m_2 = -\frac{8}{5}$$

$$v_1 = 3 ; v_2 = \frac{1}{4}$$

$$d_1 = -4 ; d_2 = \frac{7}{5}$$

$$i_1 = -\frac{7}{8} ; i_2 = -\frac{1}{2}$$

$$a_1 = 1 ; a_2 = \frac{1}{2}$$

$$i_1 = \frac{5}{6} ; i_2 = \frac{4}{7}$$

$$a_1 = -\frac{1}{4} ; a_2 = 3$$

$$m_1 = 4 ; m_2 = \frac{4}{3}$$

$$o_1 = \frac{1}{3} ; o_2 = -1$$