

$$\frac{2\sqrt{3}-3}{2-\sqrt{3}} \cdot \frac{2+\sqrt{3}}{2+\sqrt{3}} = \frac{4\sqrt{3}+6-6-3\sqrt{3}}{4-2\sqrt{3}+2\sqrt{3}-3} =$$

$$\frac{\sqrt{3}}{1} = \sqrt{3}$$

$$1-x^2=0$$

$$x^2=1 \Rightarrow x=1 \vee x=-1$$

$$3x^2+5=0$$

$$3x^2=-5$$

$$x^2 = -\frac{5}{3} \text{ IMPOSSIBILE!}$$

$$3x^2-1=0$$

$$3x^2=1$$

$$x^2 = \frac{1}{3} \Rightarrow x = \sqrt{\frac{1}{3}} \vee x = -\sqrt{\frac{1}{3}}$$

$$\frac{1}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{\sqrt{3}}{3}$$

$$x = \frac{\sqrt{3}}{3} \vee x = -\frac{\sqrt{3}}{3}$$

$$3,1\bar{5} = \frac{315 - 31}{90} = \frac{284}{90}$$

$$2,75 = \frac{275}{100} = \frac{55}{20} = \frac{11}{4}$$

$$\sqrt{7} \in \mathbb{R}$$

$$\begin{cases} -\frac{2}{3}(x+y) + 2(z+1) = \frac{1}{3} \\ \frac{1}{3}x + \frac{3}{2}z = y-1 \\ 3(x-z) = x+y \end{cases} \Rightarrow \begin{cases} -\frac{2}{3}x - \frac{2}{3}y + 2z + 2 = \frac{1}{3} \\ \frac{1}{3}x + \frac{3}{2}z = y-1 \\ y = 3x - 3z - x \Rightarrow y = 2x - 3z \end{cases}$$

$$\begin{cases} -\frac{2}{3}x - \frac{2}{3}(2x-3z) + 2z + 2 = \frac{1}{3} \Rightarrow -\frac{2}{3}x - \frac{4}{3}x + 2z + 2z + 2 - \frac{1}{3} = 0 \end{cases}$$

$$\begin{cases} \frac{1}{3}x + \frac{3}{2}z = 2x - 3z - 1 \Rightarrow \frac{2x + 9z - 12x + 18z + 6}{6} = 0 \end{cases}$$

idem

$$\begin{cases} -2x + 4z + \frac{5}{3} = 0 \end{cases}$$

$$\begin{cases} -10x + 27z + 6 = 0 \Rightarrow \frac{-10x}{-10} = \frac{-27z - 6}{-10} \Rightarrow x = \frac{27}{10}z + \frac{3}{5} \end{cases}$$

idem

$$\begin{cases} -2\left(\frac{27}{10}z + \frac{3}{5}\right) + 4z + \frac{5}{3} = 0 \Rightarrow -\frac{27}{5}z - \frac{6}{5} + 4z + \frac{5}{3} = 0 \end{cases}$$

idem

idem

$$\begin{cases} \frac{-81z - 18 + 60z + 25}{15} = 0 \Rightarrow -21z + 7 = 0 \Rightarrow z = \frac{1}{3} \end{cases}$$

$$\begin{cases} x = \frac{27}{10} \cdot \frac{1}{3} + \frac{3}{5} = \frac{9}{10} + \frac{3}{5} = \frac{9+6}{10} = \frac{15}{10} = \frac{3}{2} \end{cases}$$

$$\begin{cases} y = 2x - 3z = 3 - 1 = 2 \end{cases}$$