Simulazione di verifica

Periodo 1 - UdA 3-4

Risolvere e verificare (se determinate) le seguenti equazioni

[1] $\frac{2}{3}x + \frac{4}{3} = -x - 1$

[2] $2x + \frac{3}{2} = 2x - 3$

[3] $-\frac{5}{4}x + \frac{3}{4} = \frac{1}{2}x - 1$

[4] $-\frac{2}{3}x - \frac{1}{6} = -\frac{1}{2}x - \frac{1}{3}$

[5] $x + \frac{2}{3} = -x - \frac{1}{3}$

[6] $-\frac{1}{3}x + \frac{1}{2} = -\frac{1}{3}x + \frac{1}{2}$

[7] $3x + \frac{1}{2} = -2x - \frac{1}{2}$

[8] $-\frac{1}{6}x - \frac{1}{2} = \frac{5}{6}x + \frac{1}{3}$

[9] $\frac{3}{2}x - 1 = -2x + \frac{1}{2}$

[10] $-\frac{7}{3}x + 1 = x - \frac{2}{3}$

[11] $-\frac{3}{2}x + 1 = 2x + 1$

[12] $x + \frac{3}{2} = -\frac{5}{2}x - 2$

Risolvere le seguenti disequazioni

[13] $\frac{1}{3}x - 1 > -\frac{2}{3}x + 1$

[14] $\frac{1}{3}x + \frac{2}{3} \geq \frac{1}{6}x + \frac{1}{2}$

[15] $\frac{2}{3}x + 1 > -x - \frac{7}{3}$

[16] $-x + 2 \geq -x - \frac{3}{2}$

[17] $\frac{3}{4}x + \frac{5}{4} \leq -x - \frac{1}{2}$

[18] $\frac{1}{2}x - 3 \leq -\frac{1}{2}x + 2$

[19] $-\frac{1}{2}x - 2 > x + \frac{3}{2}$

[20] $-\frac{1}{2}x + \frac{5}{6} > \frac{1}{3}x - \frac{1}{6}$

[21] $2x - 1 \geq -\frac{3}{2}x + \frac{5}{2}$

[22] $\frac{4}{3}x - 1 \geq -x + \frac{2}{3}$

[23] $\frac{3}{2}x - 2 \leq -3x - 2$

[24] $-\frac{1}{2}x + \frac{1}{3} > -\frac{1}{2}x + \frac{1}{3}$

SOLUZIONI

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[1] $x = -\frac{7}{5} \quad \frac{2}{5} = \frac{2}{5}$

[2] *Impossibile*

[3] $x = 1 \quad -\frac{1}{2} = -\frac{1}{2}$

[4] $x = 1 \quad -\frac{5}{6} = -\frac{5}{6}$

[5] $x = -\frac{1}{2} \quad \frac{1}{6} = \frac{1}{6}$

[6] *Indeterminata*

[7] $x = -\frac{1}{5} \quad -\frac{1}{10} = -\frac{1}{10}$

[8] $x = -\frac{5}{6} \quad -\frac{13}{36} = -\frac{13}{36}$

[9] $x = \frac{3}{7} \quad -\frac{5}{14} = -\frac{5}{14}$

[10] $x = \frac{1}{2} \quad -\frac{1}{6} = -\frac{1}{6}$

[11] $x = 0 \quad 1 = 1$

[12] $x = -1 \quad \frac{1}{2} = \frac{1}{2}$

[13] $x > 2$

[14] $x \geq -1$

[15] $x > -2$

[16] *Sempre*

[17] $x \leq -1$

[18] $x \leq 5$

[19] $x < -\frac{7}{3}$

[20] $x < \frac{6}{5}$

[21] $x \geq 1$

[22] $x \geq \frac{5}{7}$

[23] $x \leq 0$

[24] *Mai*