

Simulazione di verifica

Periodo 1 - UdA 3-4

Risolvere e verificare le seguenti equazioni

[1]	$-\frac{3}{2}x + 1 = 2x + 1$	[2]	$-2x - \frac{1}{2} = \frac{3}{2}x + 1$	[3]	$x + 1 = -\frac{2}{3}x - \frac{4}{3}$
[4]	$-x + \frac{1}{3} = x - \frac{2}{3}$	[5]	$-\frac{1}{6}x - \frac{1}{3} = \frac{5}{6}x + \frac{1}{2}$	[6]	$-3x - 1 = -4x - 2$
[7]	$-\frac{7}{3}x + 1 = x - \frac{2}{3}$	[8]	$\frac{5}{4}x + \frac{3}{4} = -\frac{1}{2}x - 1$	[9]	$-x + 2 = \frac{5}{2}x - \frac{3}{2}$

Risolvere le seguenti equazioni

10.	$-3 = 3(2x - 5) + 6(-x + 2)$
11.	$-(-6x - 5) + 3(2 + x) = -1$
12.	$4x - (-1) + 3(-3 + x) = 5x$
13.	$-(2x - 3) + 2(6x + 5) - 4(x + 3) = -1$
14.	$0 = 2\left(\frac{1}{2}x - 1\right) - 3\left(\frac{1}{2} + \frac{3}{4}x\right) - \frac{1}{2}\left(-\frac{5}{2}x - 3\right)$
15.	$-\frac{3}{2} = 5\left(\frac{2}{3}x - \frac{1}{2}\right) - \left(\frac{5}{2}x - 1\right) - \left(-\frac{4}{3}x\right)$

SOLUZIONI

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[1] $x = 0$ $1 = 1$

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

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

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

[5] $x = -\frac{5}{6}$ $-\frac{7}{36} = -\frac{7}{36}$

[6] $x = -1$ $2 = 2$

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

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

[9] $x = 1$ $1 = 1$

[10] *Indeterminata*

[11] $-\frac{4}{3}$

[12] 4

[13] $-\frac{1}{3}$

[14] *Impossibile*

[15] 0