

Equazioni per il 21 con verifica

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RAGAZZI LA CORREZIONE LA FACCIAMO A CAMPIONE - SEGUITE E CORREGGETE - AVETE FATTO TANTI ERRORI

m 117

$$3x + 2 = -7$$

$$3x = -7 - 2$$

$$3x = -9$$

$$\frac{3x}{3} = \frac{-9}{3} \quad x = -3$$

VERIFICA

$$3x + 2 = -7$$

$$3 \cdot (-3) + 2 = -7$$

$$-9 + 2 = -7$$

$$\boxed{-7 = -7}$$

$$-4x + 1 = 5$$

$$-4x = 5 - 1$$

$$-4x = 4 \quad (\text{moltiplico per } -1)$$

$$4x = -4$$

$$\frac{4x}{4} = \frac{-4}{4}$$

$$\boxed{x = -1}$$

$$-4x + 1 = 5$$

$$-4 \cdot (-1) + 1 = 5$$

$$4 + 1 = 5$$

$$\boxed{5 = 5}$$

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$$4x + 1 = 5$$

$$4x = 5 - 1$$

$$4x = 4$$

$$\boxed{x = \frac{4}{4} = 1}$$

VERIFICA

$$4x + 1 = 5$$

$$4 \cdot 1 + 1 = 5$$

$$\boxed{5 = 5}$$

$$4x + 6 = 6$$

$$4x = 6 - 6$$

$$4x = 0$$

$$\boxed{x = \frac{0}{4} = 0}$$

$$4x + 6 = 6$$

$$4 \cdot 0 + 6 = 6$$

$$0 + 6 = 6$$

$$\boxed{6 = 6}$$

VERIFICA

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$$3x - 2 = 5 \Rightarrow 3x = 5 + 2$$

$$3x = 7 \Rightarrow \frac{3x}{3} = \frac{7}{3} \Rightarrow \boxed{x = \frac{7}{3}}$$

$$3x - 2 = 5$$

$$3 \cdot \frac{7}{3} - 2 = 5 \Rightarrow 7 - 2 = 5$$

$$\boxed{5 = 5}$$

(5=5)

$$2x - 3 = 4 \Rightarrow 2x = 4 + 3 \Rightarrow \frac{2x}{2} = \frac{7}{2}$$

$$\boxed{x = \frac{7}{2}}$$

$$2x - 3 = 4 \Rightarrow 2 \cdot \frac{7}{2} - 3 = 4$$

$$7 - 3 = 4 \Rightarrow \boxed{4 = 4}$$

cambiando di segno

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$$3x + 5 = 2 - x$$

$$3x + x = -5 + 2$$

$$4x = -3 \Rightarrow \boxed{x = -\frac{3}{4}}$$

VERIFICA

$$3x + 5 = 2 - x$$

$$3 \cdot \left(-\frac{3}{4}\right) + 5 = 2 - \left(-\frac{3}{4}\right)$$

$$-\frac{9}{4} + 5 = 2 + \frac{3}{4} \Rightarrow \frac{-9 + 20}{4} = \frac{8 + 3}{4} \Rightarrow$$

$$\Rightarrow \boxed{\frac{11}{4} = \frac{11}{4}}$$

$$7 - 3x = 8 - 6x \Rightarrow -3x + 6x = 8 - 7$$

$$3x = 1 \Rightarrow \boxed{x = \frac{1}{3}}$$

$$7 - 3x = 8 - 6x \Rightarrow 7 - 3 \cdot \frac{1}{3} = 8 - 6 \cdot \frac{1}{3}$$

$$7 - 1 = 8 - 2 \Rightarrow \boxed{6 = 6}$$

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$$8x - 4 = 8 - x$$

$$8x + x = 8 + 4$$

$$9x = 12 \Rightarrow \frac{9x}{9} = \frac{12}{9} \Rightarrow \boxed{x = \frac{4}{3}}$$

$$8x - 4 = 8 - x$$

$$8 \cdot \frac{4}{3} - 4 = 8 - \frac{4}{3}$$

$$\frac{32}{3} - 4 = \frac{24 - 4}{3} \Rightarrow \frac{32 - 12}{3} = \frac{20}{3} \Rightarrow$$

$$\Rightarrow \boxed{\frac{20}{3} = \frac{20}{3}}$$

$$4x + 2 = x + 4 \Rightarrow 4x - x = 4 - 2$$

$$3x = 2 \quad \frac{3x}{3} = \frac{2}{3} \quad \boxed{x = \frac{2}{3}}$$

$$4x + 2 = x + 4$$

$$4 \cdot \frac{2}{3} + 2 = \frac{2}{3} + 4 \Rightarrow \frac{8 + 2}{3} = \frac{2}{3} + 4$$

$$\frac{8 + 6}{3} = \frac{2 + 12}{3} \Rightarrow \boxed{\frac{14}{3} = \frac{14}{3}}$$

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$$2x + 10 + 5x = 2 + 2x - 10 - 4x$$

$$2x + 5x - 2x + 4x = -10 + 2 - 10$$

$$9x = -18 \Rightarrow \frac{9x}{9} = \frac{-18}{9} \quad \boxed{x = -2}$$

$$2x + 10 + 5x = 2 + 2x - 10 - 4x$$

$$2 \cdot (-2) + 10 + 5 \cdot (-2) = 2 + 2 \cdot (-2) - 10 - 4 \cdot (-2)$$

$$-4 + 10 - 10 = 2 - 4 - 10 + 8$$

$$\boxed{-4 = -4}$$

si esaurisce il segno

$$133) 4 + 4x + 4x = 6 - 20 + 2x$$

$$4x + 4x - 2x = -4 + 6 - 20$$

$$6x = -18$$

$$x = -\frac{18}{6} = -3$$

$$4 + 4x + 4x = 6 - 20 + 2x$$

$$4 + 4 \cdot (-3) + 4 \cdot (-3) = 6 - 20 + 2 \cdot (-3)$$

$$4 - 12 - 12 = 6 - 20 - 6$$

$$-20 = -20$$

VERIFICA

$$-1 - 3 \cdot (-1) + 5 \cdot (-1) - 7 \cdot (-1) + 9 \cdot (-1) =$$

$$= 2 + 4 + 6 + 8 - 9$$

$$-1 + 3 - 5 + 7 - 9 = -5$$

$$-5 = -5$$

$$136) 2x - 8 + x = 2x - 6 - 5x$$

1) $2x$ si semplificano per la regola della soppressione dei termini uguali

$$+5x + x = 8 - 6 \Rightarrow 6x = 2$$

$$x = \frac{2}{6} = \frac{1}{3}$$

$$2x - 8 + x = 2x - 6 - 5x$$

$$2 \cdot \frac{1}{3} - 8 + 1 = 2 \cdot \frac{1}{3} - 6 - 5 \cdot \frac{1}{3}$$

$$\frac{2}{3} - 8 + 1 = \frac{2}{3} - 6 - \frac{5}{3} \quad \text{Trova il m.c.m.}$$

$$\frac{2 - 24 + 3}{3} = \frac{2 - 18 - 5}{3}$$

$$-19 = -19$$

$$\textcircled{137} \quad 6x - 5 - 2x = 7 + x - 11$$

$$6x - 2x - x = 7 - 11 + 5$$

$$3x = 1 \Rightarrow \boxed{x = \frac{1}{3}}$$

$$\boxed{-\frac{21}{3} = -\frac{21}{3}}$$

$$6x - 5 - 2x = 7 + x - 11$$

$$6 \cdot \frac{1}{3} - 5 - 2 \cdot \frac{1}{3} = 7 + \frac{1}{3} - 11$$

$$\frac{2}{3} - 5 - \frac{2}{3} = \frac{21 + 1 - 33}{3}$$

$$\frac{6 - 15 - 2}{3} = -\frac{11}{3} \Rightarrow \boxed{-\frac{11}{3} = -\frac{11}{3}}$$

$$\textcircled{139} \quad 2x - 7 - 5x + 1 = -7x + 6 + 8x + 1$$

$$2x - 5x + 7x - 8x = +7 - 1 + 6 + 1$$

$$-4x = 13 \Rightarrow -\frac{4x}{4} = \frac{13}{4}$$

$$2x - 7 - 5x + 1 = -7x + 6 + 8x + 1$$

$$2 \cdot \left(-\frac{13}{4}\right) - 7 - 5 \cdot \left(-\frac{13}{4}\right) + 1 = -7 \cdot \left(-\frac{13}{4}\right) + 6 + 8 \cdot \left(-\frac{13}{4}\right) + 1$$

$$-\frac{13}{2} - 7 + \frac{65}{4} + 1 = \frac{91}{4} + 6 - 26 + 1$$

$$-\frac{26 - 28 + 65 + 4}{4} = \frac{91 + 24 - 104 + 4}{4}$$

$$\boxed{\frac{15}{4} = \frac{15}{4}}$$

$-x = \frac{13}{4} \Rightarrow -x \cdot (-1) = \frac{13}{4} \cdot (-1)$
 \uparrow
 $\boxed{x = -\frac{13}{4}}$
 le x est négative x est n multiplie par -1