

R000 RESPOSTAS

R021)

$$6x - 2x = 16$$

$$4x = 16$$

$$x = \frac{16}{4}$$

$$x = 4$$

R022)

$$2x - x = 1 + 5$$

$$x = 6$$

R023)

$$2x - x = 4 - 3$$

$$x = 1$$

R024)

$$5x - 4x = 10 - 7$$

$$x = 3 //$$

R025)

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

$$2x = 12$$

$$x = \frac{12}{2}$$

$$x = 6 //$$

R026)

$$4x - 8x = -2 + 7$$

$$-4x = 5$$

$$x = \frac{5}{-4} = -\frac{5}{4} //$$

R027)

$$\begin{aligned}2x - 4x &= -7 - 1 \\-2x &= -8 \quad \times (-1) \\2x &= 8 \\x &= \frac{8}{2} \\x &= 4 //\end{aligned}$$

R028)

$$\begin{aligned}9x + 3x &= 15 - 9 \\12x &= 6 \\x &= \frac{6}{12} \\x &= \frac{1}{2} //\end{aligned}$$

R029)

$$\begin{aligned}16x - 12x &= 3 + 1 \\4x &= 4 \\x &= \frac{4}{4} \\x &= 1\end{aligned}$$

R030)

$$\begin{aligned}3x - 4x &= 9 + 2 \\-x &= 11 \quad \times (-1) \\x &= -11 //\end{aligned}$$

R031)

$$\begin{aligned}5x + x - 2x &= 9 + 3 \\4x &= 12 \\x &= \frac{12}{4} \\x &= 3 //\end{aligned}$$

R032)

$$\begin{aligned}
 17x - 7x - x &= 18 \\
 9x &= 18 \\
 x &= \frac{18}{9} \\
 x &= 2 //
 \end{aligned}$$

R033)

$$\begin{aligned}
 x + x + 2x &= 17 + 1 + 4 \\
 4x &= 22 \\
 x &= \frac{22}{4} \\
 x &= \frac{11}{2} //
 \end{aligned}$$

R034)

$$\begin{aligned}
 x + 2x - 5x - 4x &= -9 - 3 \\
 -6x &= -12 \\
 x &= \frac{-12}{-6} = 2 //
 \end{aligned}$$

R035)

$$\begin{aligned}
 5x + 6x - 3x - 2x &= -4 + 16 \\
 6x &= 12 \\
 x &= \frac{12}{6} \\
 x &= 2 //
 \end{aligned}$$

R036)

$$\begin{aligned}
 5x - 3x + 2x &= 4 - 4 \\
 4x &= 0 \\
 x &= \frac{0}{4} = 0 //
 \end{aligned}$$

R037)

$$\begin{aligned}4x - 1 &= 3x - 3 \\4x - 3x &= -3 + 1 \\x &= -2//\end{aligned}$$

R038)

$$\begin{aligned}3x - 6 &= 2x - 4 \\3x - 2x &= -4 + 6 \\x &= 2//\end{aligned}$$

R039)

$$\begin{aligned}2x - 2 &= 3x + 4 \\2x - 3x &= 4 + 2 \\-x &= 6 \times (-1) \\x &= -6//\end{aligned}$$

R040)

$$\begin{aligned}3x - 3 - 7 &= 15 \\3x &= 15 + 3 + 7 \\3x &= 25 \\x &= \frac{25}{3}//\end{aligned}$$

R041)

$$\begin{aligned}7x - 28 &= 2x - 3 \\7x - 2x &= -3 + 28 \\5x &= 25 \\x &= \frac{25}{5} \\x &= 5//\end{aligned}$$

R042)

$$\begin{aligned}3x - 6 &= 12 - 4x \\3x + 4x &= 12 + 6 \\7x &= 18 \\x &= \frac{18}{7} //\end{aligned}$$

R043)

$$\begin{aligned}9x - 3 &= 6x + 4 \\9x - 6x &= 4 + 3 \\3x &= 7 \\x &= \frac{7}{3} //\end{aligned}$$

R044)

$$\begin{aligned}7x - 14 &= 5x + 15 \\7x - 5x &= 15 + 14 \\2x &= 29 \\x &= \frac{29}{2}\end{aligned}$$

R045)

$$\begin{aligned}6x - 3 &= -2x - 6 \\6x + 2x &= -6 + 3 \\8x &= -3 \\x &= -\frac{3}{8} //\end{aligned}$$

R046)

$$\begin{aligned}5x - 3x - 6 &= 15 \\5x - 3x &= 15 + 6 \\2x &= 21 \\x &= \frac{21}{2} //\end{aligned}$$

R048)

$$2x + 3x + 9 = 48 - 8x$$

$$2x + 3x + 8x = 48 - 9$$

$$13x = 39$$

$$x = \frac{39}{13}$$

$$x = 3 //$$

R049)

$$4x + 40 - 2x + 10 = 0$$

$$4x - 2x = -40 - 10$$

$$2x = -50$$

$$x = \frac{-50}{2}$$

$$x = -25 //$$

R050)

$$6x + 9 - 4x + 4 = 3$$

$$6x - 4x = 3 - 9 - 4$$

$$-2x = -10$$

$$x = \frac{-10}{-2}$$

$$x = 5 //$$

R051)

$$7x - 7 - 2x + 10 = x - 5$$

$$7x - 2x - x = -5 + 7 - 10$$

$$4x = -8$$

$$x = \frac{-8}{4}$$

$$x = -2 //$$

R052)

$$\begin{aligned}
 6 - 2x &= 3x - 12 + 15 \\
 -2x - 3x &= -12 + 15 - 6 \\
 -5x &= -3 \quad \times (-1) \\
 5x &= 3 \\
 x &= \frac{3}{5} //
 \end{aligned}$$

R053)

$$\begin{aligned}
 15 - 3x - 3 + 6x &= 42 \\
 -3x + 6x &= 42 - 15 + 3 \\
 3x &= 30 \\
 x &= \frac{30}{3} \\
 x &= 10 //
 \end{aligned}$$

R054)

$$\begin{aligned}
 4x + 6 - 2x &= x - 6 + 10 + 14 \\
 4x - 2x - x &= -6 + 10 + 14 - 6 \\
 x &= 12 //
 \end{aligned}$$

R055)

$$\begin{aligned}
 x - 3 - x - 2 + 2x - 2 - 5 &= 0 \\
 x - x + 2x &= 3 + 2 + 2 + 5 \\
 2x &= 12 \\
 x &= \frac{12}{2} \\
 x &= 6 //
 \end{aligned}$$

R056)

$$\begin{aligned}
 3x - 8x + 6 &= 2 - 3x + 3 \\
 3x - 8x + 3x &= 2 + 3 - 6 \\
 -2x &= -1 \quad \times (-1) \\
 2x &= 1 \\
 x &= \frac{1}{2} //
 \end{aligned}$$

R057)

$$\begin{aligned}
 3x - 3 - x + 3 + 5x - 10 &= 18 \\
 3x - x + 5x &= 18 + 3 - 3 + 10 \\
 7x &= 28 \\
 x &= \frac{28}{7} \\
 x &= 4 //
 \end{aligned}$$

R058)

$$\begin{aligned}
 5x - 15 - 4x - 8 &= 2 + 3 - 6x \\
 5x - 4x + 6x &= 2 + 3 + 15 + 8 \\
 7x &= 28 \\
 x &= \frac{28}{7} \\
 x &= 4 //
 \end{aligned}$$

R059)

$$\begin{aligned}
 3x - 2x &= 5 + 7 \\
 x &= 12 //
 \end{aligned}$$

R060)

$$\begin{aligned}
 7x - 4x &= -10 - 8 \\
 3x &= -18 \\
 x &= \frac{-18}{3} \\
 x &= -6 //
 \end{aligned}$$

R061)

$$\begin{aligned}2x - 4x &= 4 + 8 \\-2x &= 12 \times (-1) \\2x &= 12 \\x &= \frac{12}{2} \\x &= 6//\end{aligned}$$

R062)

$$\begin{aligned}3x - x &= 1 + 7 \\2x &= 8 \\x &= \frac{8}{2} \\x &= 4//\end{aligned}$$

R063)

$$\begin{aligned}36x - 30x &= -360 \\6x &= -360 \\x &= \frac{-360}{6} \\x &= -60//\end{aligned}$$

R064)

$$\begin{aligned}2x - 5x &= -1 - 5 \\-3x &= -6 \times (-1) \\3x &= 6 \\x &= \frac{6}{3} \\x &= 2//\end{aligned}$$

R065)

$$\begin{aligned}6x - 5x &= 2 - 5 \\x &= -3//\end{aligned}$$

R066)

$$\begin{aligned}x + 2x - x &= 1 + 3 \\2x &= 4 \\x &= \frac{4}{2} \\x &= 2 //\end{aligned}$$

R067)

$$\begin{aligned}-3x - 2x &= 8 + 1 - 10 \\-5x &= -1 \times (-1) \\5x &= 1 \\x &= \frac{1}{5} //\end{aligned}$$

R068)

$$\begin{aligned}5x + x - x &= 9 + 5 \\5x &= 14 \\x &= \frac{14}{5} //\end{aligned}$$

R069)

$$\begin{aligned}7x - x + 2x + 3x &= 8 + 4 \\11x &= 12 \\x &= \frac{12}{11} //\end{aligned}$$

R071)

$$\begin{aligned}-x + 4x + 7x - 6x &= 15 + 5 \\4x &= 20 \\x &= \frac{20}{4} \\x &= 5 //\end{aligned}$$

R072)

$$\begin{aligned}3x - 2x - 3x &= 2 \\ -2x &= 2 \times (-1) \\ 2x &= -2 \\ x &= \frac{-2}{2} \\ x &= -1 //\end{aligned}$$

R073)

$$\begin{aligned}-4x + 18x &= 32 + 12 - 2 \\ 14x &= 42 \\ x &= \frac{42}{14} \\ x &= 3 //\end{aligned}$$

R074)

$$\begin{aligned}2x - x &= -3 + 4 + 1 \\ x &= 2 //\end{aligned}$$

R075)

$$\begin{aligned}3x - 2x &= 2 + 3 \\ x &= 5 //\end{aligned}$$

R076)

$$\begin{aligned}-9x + 2x + 3x &= 2 - 10 \\ -4x &= -8 \times (-1) \\ 4x &= 8 \\ x &= \frac{8}{4} \\ x &= 2 //\end{aligned}$$

R077)

$$\begin{aligned}
 4x - 5x &= -6 + 90 + 4 \\
 -x &= 88 \\
 x &= -88 //
 \end{aligned}$$

R078)

$$\begin{aligned}
 -3x + 2x + 3x &= 12 - 2 \\
 2x &= 10 \\
 x &= \frac{10}{2} \\
 x &= 5 //
 \end{aligned}$$

R079)

$$\begin{aligned}
 7x - 35 &= 3x + 1 \\
 7x - 3x &= 1 + 35 \\
 4x &= 36 \\
 x &= \frac{36}{4} \\
 x &= 9 //
 \end{aligned}$$

R081)

$$\begin{aligned}
 3x - 6 &= -4x + 12 \\
 3x + 4x &= 12 + 6 \\
 7x &= 18 \\
 x &= \frac{18}{7} //
 \end{aligned}$$

R082)

$$\begin{aligned}
 2x + 2 - x + 1 &= 0 \\
 2x - x &= -1 - 2 \\
 x &= -3 //
 \end{aligned}$$

R083)

$$\begin{aligned}
 5x + 5 - 3x - 6 &= 0 \\
 5x - 3x &= 6 - 5 \\
 2x &= 1 \\
 x &= \frac{1}{2}
 \end{aligned}$$

R084)

$$\begin{aligned}
 13 + 8x - 4 &= 5x + 10 \\
 8x - 5x &= 10 - 13 + 4 \\
 3x &= 1 \\
 x &= \frac{1}{3}
 \end{aligned}$$

R085)

$$\begin{aligned}
 4x + 20 + 3x + 15 &= 21 \\
 4x + 3x &= 21 - 20 - 15 \\
 7x &= -14 \\
 x &= \frac{-14}{7} \\
 x &= -2
 \end{aligned}$$

R086)

$$\begin{aligned}
 2x + 10 - 15 + 3x &= 10 \\
 2x + 3x &= 10 - 10 + 15 \\
 5x &= 15 \\
 x &= \frac{15}{5} \\
 x &= 3
 \end{aligned}$$

R087)

$$\begin{aligned}
 8x - 8 &= 8 - 8x + 12 \\
 8x + 8x &= 8 + 12 + 8 \\
 16x &= 28 \\
 x &= \frac{28}{16} \\
 x &= \frac{7}{4} //
 \end{aligned}$$

R088)

$$\frac{x}{4} - \frac{x}{6} = \frac{3}{1} \quad \text{mmc}(4, 6, 1) = 12$$

$$\begin{aligned}
 \frac{3x}{12} - \frac{2x}{12} &= \frac{12 \cdot 3}{12} \\
 3x - 2x &= 36 \\
 x &= 36 //
 \end{aligned}$$

R099)

$$\frac{3x}{4} - \frac{x}{3} = \frac{5}{1} \quad \text{mmc}(4, 3, 1) = 12$$

$$\begin{aligned}
 \frac{3 \cdot 3x}{12} - \frac{4 \cdot x}{12} &= \frac{12 \cdot 5}{12} \\
 9x - 4x &= 60 \\
 5x &= 60 \\
 x &= \frac{60}{5} \\
 x &= 12 //
 \end{aligned}$$

R100)

$$\frac{x}{5} - \frac{1}{1} = \frac{9}{1} \quad mmc(5,1,1)=5$$

$$\frac{x}{5} - \frac{5.1}{5} = \frac{5.9}{5}$$

$$x - 5 = 45$$

$$x = 45 + 5$$

$$x = 50 //$$

R101)

$$\frac{x}{3} - \frac{5}{1} = \frac{0}{1} \quad mmc(3,1,1)=3$$

$$\frac{x}{3} - \frac{3.5}{3} = \frac{3.0}{3}$$

$$x - 15 = 0$$

$$x = 15 //$$

R102)

$$\frac{x}{2} + \frac{3x}{5} = \frac{6}{1} \quad mmc(2,5,1)=10$$

$$\frac{5.x}{10} + \frac{2.3x}{10} = \frac{10.6}{10}$$

$$5x + 6x = 60$$

$$11x = 60$$

$$x = \frac{60}{11} //$$

R103)

$$\text{mmc}(5, 2, 10) = 10$$

$$\frac{2x}{10} + \frac{5x}{10} = \frac{7}{10}$$

$$2x + 5x = 7$$

$$7x = 7$$

$$x = 1 //$$

R104)

$$\text{mmc}(1, 1, 2) = 2$$

$$\frac{2 \cdot 5x}{2} - \frac{2 \cdot 10}{2} = \frac{x+1}{2}$$

$$10x - 20 = x + 1$$

$$10x - x = 1 + 20$$

$$9x = 21$$

$$x = \frac{21}{9} //$$

$$\frac{8x-1}{2} - \frac{2x}{1} = \frac{3}{1} \quad \text{mmc}(2, 1, 1) = 2 \quad \text{R105)}$$

$$\frac{8x-1}{2} - \frac{2 \cdot 2x}{2} = \frac{2 \cdot 3}{2}$$

$$8x - 1 - 4x = 6$$

$$8x - 4x = 6 + 1$$

$$4x = 7$$

$$x = \frac{7}{4} //$$

R106)

$$\text{m m c} (5, 3) = 15$$

$$\frac{3(2x-7)}{15} = \frac{5(x+2)}{15}$$

$$6x - 21 = 5x + 10$$

$$6x - 5x = 10 + 21$$

$$x = 31 //$$

R107)

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

$$\text{m m c} (2, 1, 3) = 6$$

$$\frac{3 \cdot 5x}{6} = \frac{6 \cdot 2x}{6} + \frac{2(x-2)}{6}$$

$$15x = 12x + 2x - 4$$

$$15x - 12x - 2x = -4$$

$$x = -4 //$$

R108)

$$\frac{x-3}{4} - \frac{2x-1}{5} = \frac{5}{1} \quad m m c (4, 5, 1) = 20$$

$$\frac{5(x-3)}{20} - \frac{4(2x-1)}{20} = \frac{20 \cdot 5}{20}$$

$$5x - 15 - 8x + 4 = 100$$

$$5x - 8x = 100 + 15 - 4$$

$$-3x = 111 \times (-1)$$

$$3x = 111$$

$$x = \frac{111}{3} = 37 //$$

R109)

$$\frac{x-1}{2} + \frac{x-3}{3} = \frac{6}{1} \quad m m c (2, 3, 1) = 6$$

$$\frac{3(x-1)}{6} + \frac{2(x-3)}{6} = \frac{6 \cdot 6}{6}$$

$$3x - 3 + 2x - 6 = 36$$

$$3x + 2x = 36 + 3 + 6$$

$$5x = 45$$

$$x = \frac{45}{5}$$

$$x = 9$$

R110)

$$\frac{5x+7}{2} = \frac{1}{2} + \frac{x}{1} \quad m.m.c(2,2,1)=2$$

$$\frac{5x-7}{2} = \frac{1}{2} + \frac{2x}{2}$$

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

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

$$3x = 8$$

$$x = \frac{8}{3} //$$

R111)

$$\frac{2x-1}{3} = \frac{x}{1} - \frac{x-1}{5} \quad m.m.c(3,1,5)=15$$

$$\frac{5(2x-1)}{15} = \frac{15 \cdot x}{15} - \frac{3(x-1)}{15}$$

$$10x-5 = 15x-3x+3$$

$$10x-15x+3x = 3+5$$

$$-2x = 8 \times (-1)$$

$$2x = -8$$

$$x = \frac{-8}{2}$$

$$x = -4 //$$

R112)

$$\text{m m c}(4, 2, 2) = 4$$

$$\frac{1 \cdot x}{4} + \frac{2(3x-2)}{4} = \frac{2(x-3)}{4}$$

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

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

$$5x = -2$$

$$x = -\frac{2}{5}$$

R113)

$$\text{m m c}(3, 5) = 15$$

$$\frac{5 \cdot 2(x-1)}{15} = \frac{3(3x+6)}{15}$$

$$10x - 10 = 9x + 18$$

$$10x - 9x = 18 + 10$$

$$x = 28$$

R114)

$$\frac{3(x-5)}{6} + \frac{2x}{4} = \frac{7}{1} \quad mmc(6, 4, 1) = 12$$

$$\frac{2 \cdot 3(x-5)}{12} + \frac{3 \cdot 2x}{12} = \frac{12 \cdot 7}{12}$$

$$\left. \begin{aligned} 6x - 30 + 6x &= 84 \\ 6x + 6x &= 84 + 30 \\ 12x &= 114 \end{aligned} \right\} \begin{aligned} x &= \frac{114}{12} \\ x &= \frac{57}{6} \end{aligned}$$

R115)

$$\frac{x}{5} - \frac{2}{1} = \frac{5(x-3)}{4} \quad mmc(5, 1, 4) = 20$$

$$\frac{4x}{20} - \frac{20 \cdot 2}{20} = \frac{5 \cdot 5(x-3)}{20}$$

$$\left. \begin{aligned} 4x - 40 &= 25x - 75 \\ 4x - 25x &= -75 + 40 \\ -21x &= -35 \quad \times (-1) \\ 21x &= 35 \end{aligned} \right\} x = \frac{35}{21} //$$

R116)

$$mmc(2, 4, 2) = 4$$

$$\frac{2x}{4} - \frac{1x}{4} = \frac{2 \cdot 1}{4}$$

$$\begin{aligned} 2x - x &= 2 \\ x &= 2 // \end{aligned}$$

R117)

$$\frac{x}{2} - \frac{x}{4} = \frac{5}{1}$$

$$\text{mmc}(2, 4, 1) = 4$$

$$\frac{2x}{4} - \frac{x}{4} = \frac{4.5}{4}$$

$$2x - x = 20$$

$$x = 20 //$$

R118)

$$\text{mmc}(5, 2, 10) = 10$$

$$\frac{2 \cdot x}{10} + \frac{5 \cdot x}{10} = \frac{1.7}{10}$$

$$2x + 5x = 7$$

$$7x = 7$$

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

$$x = 1 //$$

R119)

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

$$\frac{3 \cdot x}{15} + \frac{15 \cdot 1}{15} = \frac{5 \cdot 2x}{15}$$

$$3x + 15 = 10x$$

$$3x - 10x = -15$$

$$-7x = -(15 \cdot (-1))$$

$$7x = 15$$

$$x = \frac{15}{7}$$

R120)

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

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

$$5x = 6$$

$$x = \frac{6}{5}$$

R121)

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

$$\frac{x}{3} + \frac{3 \cdot 4}{3} = \frac{3 \cdot 2x}{3}$$

$$x + 12 = 6x$$

$$x - 6x = -12$$

$$-5x = -12 \cdot (-1)$$

$$5x = 12$$

$$x = \frac{12}{5}$$

R122)

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

$$\frac{3x}{6} + \frac{6 \cdot 4}{6} = \frac{2 \cdot 1}{6}$$

$$3x + 24 = 2$$

$$3x = 2 - 24$$

$$3x = -22$$

$$x = -\frac{22}{3}$$

R123)

$$\frac{5x}{3} - \frac{2}{5} = \frac{0}{1}$$

$$\frac{5.5x}{15} - \frac{3.2}{15} = \frac{15.0}{15}$$

$$25x - 6 = 0$$

$$25x = 6$$

$$x = \frac{6}{25} //$$

R124)

$$\frac{x}{1} - \frac{1}{1} = \frac{5}{1} - \frac{x}{4}$$

$$\frac{4x}{4} - \frac{4}{4} = \frac{4.5}{4} - \frac{x}{4}$$

$$4x - 4 = 20 - x$$

$$4x + x = 20 + 4$$

$$5x = 24$$

$$x = \frac{24}{5}$$

R125)

$$\frac{x}{1} + \frac{x}{2} = \frac{15}{1}$$

$$\frac{2x}{2} + \frac{x}{2} = \frac{2 \cdot 15}{2}$$

$$2x + x = 30$$

$$3x = 30$$

$$x = \frac{30}{3}$$

$$x = 10 //$$

R126)

$$\frac{8x}{3} = \frac{2x}{1} - \frac{9}{1}$$

$$\frac{8x}{3} = \frac{3 \cdot 2x}{3} - \frac{3 \cdot 9}{3}$$

$$8x = 6x - 27$$

$$8x - 6x = -27$$

$$2x = -\frac{27}{1}$$

$$x = -\frac{27}{2} //$$

R127)

$$\text{mmc}(2,4,6) = 12$$

$$\frac{6 \cdot x}{12} + \frac{3 \cdot 3}{12} = \frac{2 \cdot 1}{12}$$

$$6x + 9 = 2$$

$$6x = 2 - 9$$

$$6x = -7$$

$$x = \frac{-7}{6} //$$

R128)

$$\frac{x}{2} - \frac{7}{1} = \frac{x}{4} + \frac{5}{1}$$

$$\frac{2 \cdot x}{4} - \frac{4 \cdot 7}{4} = \frac{1 \cdot x}{4} + \frac{4 \cdot 5}{4}$$

$$2x - 28 = x + 20$$

$$2x - x = 20 + 28$$

$$x = 48 //$$

R129)

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

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

$$12x - 3 = 30x + 2$$

$$12x - 30x = 2 + 3$$

$$-18x = 5 \times (-1)$$

$$18x = -5$$

$$x = -\frac{5}{18} //$$

R130)

$$\frac{x}{1} - \frac{1}{1} = \frac{5}{1} - \frac{x}{4}$$

$$\frac{4 \cdot x}{4} - \frac{4 \cdot 1}{4} = \frac{4 \cdot 5}{4} - \frac{1 \cdot x}{4}$$

$$4x - 4 = 20 - x$$

$$4x + x = 20 + 4$$

$$5x = 24$$

$$x = \frac{24}{5}$$

R131)

$$\frac{x}{6} + \frac{x}{3} = \frac{18}{1} - \frac{x}{4}$$

$$\frac{2 \cdot x}{12} + \frac{4 \cdot x}{12} = \frac{12 \cdot 18}{12} - \frac{3 \cdot x}{12}$$

$$2x + 4x = 216 - 3x$$

$$2x + 4x + 3x = 216$$

$$9x = 216$$

$$x = \frac{216}{9}$$

$$x = 24 //$$

R133)

$$\frac{x}{4} + \frac{x}{8} + \frac{x}{6} = \frac{26}{1}$$

$$\frac{6 \cdot x}{24} + \frac{3 \cdot x}{24} + \frac{4 \cdot x}{24} = \frac{24 \cdot 26}{24}$$

$$6x + 3x + 4x = 624$$

$$13x = 624$$

$$x = \frac{624}{13}$$

$$x = 48 //$$

R134)

$$\frac{x}{8} + \frac{x}{5} = \frac{17}{1} - \frac{x}{10}$$

$$\frac{5x}{40} + \frac{8x}{40} = \frac{40 \cdot 17}{40} - \frac{4x}{40}$$

$$5x + 8x = 680 - 4x$$

$$5x + 8x + 4x = 680$$

$$17x = 680$$

$$x = \frac{680}{17} = 40 //$$

R135)

$$\frac{x}{4} - \frac{x}{3} = \frac{2x}{1} - \frac{50}{1}$$

$$\frac{3x}{12} - \frac{4x}{12} = \frac{12 \cdot 2x}{12} - \frac{12 \cdot 50}{12}$$

$$3x - 4x = 24x - 600$$

$$3x - 4x - 24x = -600$$

$$-25x = -600 \times (-1)$$

$$25x = 600$$

$$x = \frac{600}{25}$$

$$x = 24 //$$

R136)

$$\frac{5x}{2} + \frac{7}{1} = \frac{2x}{1} + \frac{4}{1}$$

$$\frac{5x}{2} + \frac{2.7}{2} = \frac{2.2x}{2} + \frac{2.4}{2}$$

$$5x + 14 = 4x + 8$$

$$5x - 4x = 8 - 14$$

$$x = -6 //$$

R137)

$$\frac{3.x}{6} + \frac{2.x}{6} = \frac{2(x+7)}{6}$$

$$3x + 2x = 2x + 14$$

$$3x + 2x - 2x = 14$$

$$3x = 14$$

$$x = \frac{14}{3} //$$

R138)

$$\frac{x+2}{6} + \frac{x+1}{4} = \frac{6}{1}$$

$$\frac{4.(x+2)}{24} + \frac{6(x+1)}{24} = \frac{24.6}{24}$$

$$4x + 8 + 6x + 6 = 144$$

$$4x + 6x = 144 - 8 - 6$$

$$10x = 130$$

$$x = \frac{130}{10} = 13 //$$

R139)

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

$$\frac{4(x-2)}{12} - \frac{3(x+1)}{12} = \frac{12 \cdot 4}{12}$$

$$4x - 8 - 3x - 3 = 48$$

$$4x - 3x = 48 + 8 + 3$$

$$x = 59 //$$

R140)

$$\frac{6(x-1)}{12} + \frac{4(x-2)}{12} = \frac{3(x-3)}{12}$$

$$6x - 6 + 4x - 8 = 3x - 9$$

$$6x + 4x - 3x = -9 + 6 + 8$$

$$7x = 5$$

$$x = \frac{5}{7} //$$

R141)

$$\frac{3(2x-3)}{12} - \frac{4 \cdot 1}{12} = \frac{6(-x+2)}{12}$$

$$6x - 9 - 4 = -6x + 12$$

$$6x + 6x = 12 + 9 + 4$$

$$12x = 25$$

$$x = \frac{25}{12} //$$

R142)

$$\frac{3(2x-3)}{12} - \frac{4(2-x)}{12} = \frac{4(x-1)}{12}$$

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

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

$$6x = 13$$

$$x = \frac{13}{6} //$$

R143)

$$\frac{2(3x-2)}{8} = \frac{3x+3}{8}$$

$$6x - 4 = 3x + 3$$

$$6x - 3x = 3 + 4$$

$$3x = 7$$

$$x = \frac{7}{3} //$$

R144)

$$\frac{3(3x+5)}{12} - \frac{4(2x-3)}{12} = \frac{12 \cdot 3}{12}$$

$$9x + 15 - 8x + 12 = 36$$

$$9x - 8x = 36 - 15 - 12$$

$$x = 9 //$$

R145)

$$\frac{x}{1} + \frac{2(x-2)}{3} = \frac{5x}{4}$$

$$\frac{12x}{12} + \frac{4 \cdot 2(x-2)}{12} = \frac{3 \cdot 5x}{12}$$

$$12x + 8(x-2) = 15x$$

$$12x + 8x - 16 = 15x$$

$$12x + 8x - 15x = 16$$

$$5x = 16$$

$$x = \frac{16}{5} //$$

R146)

$$\frac{4(2x+1)}{16} - \frac{8 \cdot 3(3-x)}{16} = \frac{56+x}{16}$$

$$8x + 4 - 24(3-x) = 56 + x$$

$$8x + 4 - 72 + 24x = 56 + x$$

$$8x + 24x - x = 56 - 4 + 72$$

$$31x = 124$$

$$x = \frac{124}{31} //$$