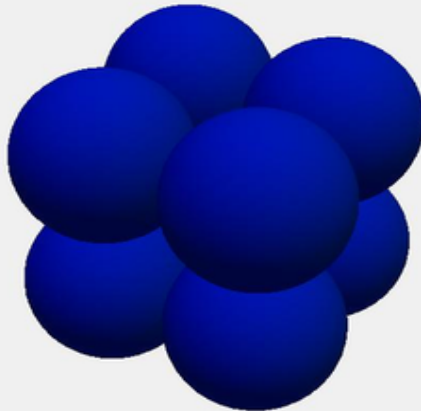


MathCon

The Mathematics Firm

Despejes

Problemas sobre despejes



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Capítulo 1

Despejes

1.1. Despejar a x de las siguientes ecuaciones.

- | | |
|---------------------|----------------------------|
| 1. $3x + 9 = 10$ | Sol: $x = \frac{1}{3}$. |
| 2. $6x + 2 = 5$ | Sol: $x = \frac{1}{2}$. |
| 3. $10x + 10 = 2$ | Sol: $x = -\frac{4}{5}$. |
| 4. $5x + 3 = 6$ | Sol: $x = \frac{3}{5}$. |
| 5. $5x + 5 = 3$ | Sol: $x = -\frac{2}{5}$. |
| 6. $7x + 9 = 4$ | Sol: $x = -\frac{5}{7}$. |
| 7. $6x + 8 = 10$ | Sol: $x = \frac{1}{3}$. |
| 8. $6x + 9 = 7$ | Sol: $x = -\frac{1}{3}$. |
| 9. $8x + 10 = 8$ | Sol: $x = -\frac{1}{4}$. |
| 10. $7x + 8 = 3$ | Sol: $x = -\frac{5}{7}$. |
| 11. $17x + 13 = 9$ | Sol: $x = -\frac{4}{17}$. |
| 12. $20x + 17 = 5$ | Sol: $x = -\frac{3}{5}$. |
| 13. $7x + 3 = 13$ | Sol: $x = \frac{10}{7}$. |
| 14. $12x + 14 = 9$ | Sol: $x = -\frac{5}{12}$. |
| 15. $15x + 19 = 20$ | Sol: $x = \frac{1}{15}$. |

16. $9x + 7 = 12$ Sol: $x = \frac{5}{9}$.
17. $14x + 14 = 4$ Sol: $x = -\frac{5}{7}$.
18. $6x + 11 = 3$ Sol: $x = -\frac{4}{3}$.
19. $14x + 14 = 4$ Sol: $x = -\frac{5}{7}$.
20. $15x + 19 = 11$ Sol: $x = -\frac{8}{15}$.
21. $6x + 43 = 19$ Sol: $x = -4$.
22. $46x + 42 = 32$ Sol: $x = -\frac{5}{23}$.
23. $12x + 27 = 5$ Sol: $x = -\frac{11}{6}$.
24. $34x + 10 = 26$ Sol: $x = \frac{8}{17}$.
25. $10x + 33 = 25$ Sol: $x = -\frac{4}{5}$.
26. $22x + 31 = 47$ Sol: $x = \frac{8}{11}$.
27. $27x + 38 = 2$ Sol: $x = -\frac{4}{3}$.
28. $44x + 26 = 50$ Sol: $x = \frac{6}{11}$.
29. $42x + 40 = 22$ Sol: $x = -\frac{3}{7}$.
30. $26x + 15 = 7$ Sol: $x = -\frac{4}{13}$.
31. $4x + 45 = 31$ Sol: $x = -\frac{7}{2}$.
32. $48x + 61 = 5$ Sol: $x = -\frac{7}{6}$.
33. $57x + 55 = 97$ Sol: $x = \frac{14}{19}$.
34. $14x + 2 = 40$ Sol: $x = \frac{19}{7}$.
35. $34x + 82 = 88$ Sol: $x = \frac{3}{17}$.
36. $50x + 99 = 73$ Sol: $x = -\frac{13}{25}$.
37. $56x + 93 = 21$ Sol: $x = -\frac{9}{7}$.
38. $94x + 11 = 9$ Sol: $x = -\frac{1}{47}$.

39. $16x + 50 = 24$ Sol: $x = -\frac{13}{8}$.
40. $10x + 11 = 5$ Sol: $x = -\frac{3}{5}$.
41. $62x + 39 = 17$ Sol: $x = -\frac{11}{31}$.
42. $30x + 79 = 47$ Sol: $x = -\frac{16}{15}$.
43. $34x + 29 = 33$ Sol: $x = \frac{2}{17}$.
44. $135x + 168 = 93$ Sol: $x = -\frac{5}{9}$.
45. $52x + 2 = 66$ Sol: $x = -\frac{16}{13}$.
46. $121x + 179 = 36$ Sol: $x = -\frac{13}{11}$.
47. $145x + 150 = 135$ Sol: $x = -\frac{3}{29}$.
48. $104x + 91 = 97$ Sol: $x = \frac{3}{52}$.
49. $35x + 146 = 62$ Sol: $x = -\frac{12}{5}$.
50. $144x + 138 = 176$ Sol: $x = \frac{19}{72}$.
51. $145x + 150 = 135$ Sol: $x = -\frac{3}{29}$.
52. $150x + 147 = 78$ Sol: $x = -\frac{23}{50}$.
53. $126x + 64 = 80$ Sol: $x = \frac{8}{63}$.
54. $10x + 189 = 184$ Sol: $x = -\frac{1}{2}$.
55. $108x + 42 = -116$ Sol: $x = -\frac{79}{54}$.
56. $-65x - 175 = -25$ Sol: $x = -\frac{30}{13}$.
57. $-87x - 136 = 140$ Sol: $x = -\frac{92}{29}$.
58. $-142x + 51 = 71$ Sol: $x = -\frac{10}{71}$.
59. $182x - 69 = -89$ Sol: $x = -\frac{10}{91}$.
60. $-63x + 134 = 191$ Sol: $x = -\frac{19}{21}$.
61. $\frac{2}{5}x + \frac{1}{3} = \frac{1}{2}$ Sol: $x = \frac{5}{12}$.

62. $\frac{3}{5}x + \frac{2}{9} = \frac{2}{3}$

Sol: $x = \frac{20}{27}$.

63. $\frac{1}{5}x + \frac{8}{5} = 1$

Sol: $x = -3$.

64. $\frac{5}{7}x + \frac{4}{5} = \frac{8}{7}$

Sol: $x = \frac{12}{25}$.

65. $\frac{2}{3}x + \frac{10}{7} = \frac{1}{6}$

Sol: $x = -\frac{53}{28}$.

66. $\frac{5}{4}x + \frac{10}{7} = \frac{1}{4}$

Sol: $x = -\frac{33}{35}$.

67. $\frac{4}{5}x + \frac{3}{2} = \frac{1}{3}$

Sol: $x = -\frac{35}{24}$.

68. $\frac{3}{8}x + \frac{4}{3} = \frac{1}{2}$

Sol: $x = -\frac{20}{9}$.

69. $\frac{7}{5}x + \frac{4}{5} = \frac{1}{3}$

Sol: $x = -\frac{1}{3}$.

70. $\frac{4}{3}x + \frac{6}{7} = \frac{2}{3}$

Sol: $x = -\frac{1}{7}$.

71. $-\frac{1}{2}x - \frac{18}{5} = \frac{1}{4}$

Sol: $x = -\frac{77}{10}$.

72. $-\frac{7}{8}x - \frac{1}{3} = -\frac{17}{4}$

Sol: $x = \frac{94}{21}$.

73. $\frac{5}{4}x + \frac{4}{3} = -\frac{7}{8}$

Sol: $x = -\frac{53}{30}$.

74. $-\frac{1}{13}x - \frac{15}{2} = -\frac{17}{13}$

Sol: $x = -\frac{161}{2}$.

75. $-\frac{5}{2}x + \frac{3}{5} = -\frac{4}{3}$

Sol: $x = \frac{58}{75}$.

76. $\frac{3}{16}x + \frac{18}{7} = \frac{5}{2}$

Sol: $x = -\frac{8}{21}$.

77. $\frac{2}{9}x + \frac{1}{20} = -\frac{13}{8}$

Sol: $x = -\frac{603}{80}$.

78. $\frac{3}{16}x + \frac{18}{7} = \frac{5}{2}$

Sol: $x = -\frac{8}{21}$.

79. $-\frac{6}{13}x - \frac{4}{5} = \frac{3}{2}$

Sol: $x = -\frac{299}{60}$.

80. $-\frac{8}{9}x - \frac{2}{3} = -\frac{19}{2}$

Sol: $x = \frac{159}{16}$.

81. $-\frac{3}{10}x + \frac{1}{2} = -\frac{11}{20}$

Sol: $x = \frac{7}{2}$.

82. $\frac{17}{18}x - \frac{17}{18} = \frac{11}{2}$

Sol: $x = \frac{116}{17}$.

83. $\frac{1}{12}x - \frac{9}{10} = \frac{10}{7}$

Sol: $x = \frac{978}{35}$.

84. $-\frac{3}{13}x - \frac{17}{11} = -\frac{3}{2}$

Sol: $x = -\frac{13}{66}$.

85. $-\frac{4}{15}x - \frac{11}{18} = \frac{9}{5}$ Sol: $x = -\frac{217}{24}$.
86. $-\frac{15}{8}x + \frac{3}{2} = -\frac{13}{5}$ Sol: $x = \frac{164}{75}$.
87. $\frac{1}{10}x - \frac{11}{15} = -\frac{1}{5}$ Sol: $x = \frac{16}{3}$.
88. $-\frac{3}{19}x + \frac{2}{5} = \frac{17}{8}$ Sol: $x = -\frac{437}{40}$.
89. $-\frac{20}{7}x + \frac{13}{12} = \frac{11}{20}$ Sol: $x = \frac{14}{75}$.
90. $\frac{1}{5}x - \frac{7}{16} = \frac{11}{14}$ Sol: $x = \frac{685}{112}$.
91. $\frac{2}{19}x + \frac{5}{2} = \frac{17}{6}$ Sol: $x = \frac{19}{6}$.
92. $\frac{3}{2}x + \frac{3}{4} = \frac{4}{15}$ Sol: $x = -\frac{29}{90}$.
93. $\frac{29}{3}x + \frac{44}{69} = \frac{2}{3}$ Sol: $x = \frac{2}{667}$.
94. $\frac{7}{3}x - \frac{29}{22} = \frac{71}{6}$ Sol: $x = \frac{62}{11}$.
95. $-\frac{44}{19}x - \frac{17}{14} = -\frac{5}{7}$ Sol: $x = -\frac{19}{88}$.
96. $-\frac{35}{37}x + \frac{3}{28} = -\frac{33}{35}$ Sol: $x = \frac{111}{100}$.
97. $-\frac{7}{50}x + \frac{4}{5} = -\frac{22}{9}$ Sol: $x = \frac{1460}{63}$.
98. $\frac{1}{2}x - \frac{44}{13} = -\frac{23}{28}$ Sol: $x = \frac{933}{182}$.
99. $\frac{49}{39}x - \frac{14}{17} = \frac{35}{13}$ Sol: $x = \frac{333}{119}$.
100. $-\frac{17}{7}x - \frac{22}{3} = -\frac{48}{29}$ Sol: $x = -\frac{3458}{1479}$.