

Graphically

In Exercises 51–72, solve the equation ~~algebraically~~. Then verify your algebraic solution by writing the equation in the form $y = 0$ and using a graphing utility to graph the equation.

51. $2.7x - 0.4x = 1.2$

~~52. $3 - 0.5x = 1.2$~~

53. $25(x - 3) = 12(x + 2) - 10$

~~54. $1000 = 200 + 0.5(500)$~~

55. $\frac{3x}{2} + \frac{1}{4}(x - 2) = 10$

~~56. $0.50 = \frac{1}{4}(x - 2) = 10$~~

57. $\frac{2x}{3} = 10 - \frac{24}{x}$

65. $x^4 = 2x^2 - 1$

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

69. $|x - 3| = 4$

71. $\sqrt{x - 2} = 3$