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|---|--|
| 1. $3x^2 + 1 = 2x^2 + 2x$ | $x = 1$ |
| 2. $2x^2 + 1 = 2 - x$ | $x_1 = -1; x_2 = \frac{1}{2}$ |
| 3. $2x^2 - x = x^2 + x - 2$ | <i>s.s.r.</i> |
| 4. $\frac{x^2 + x - 2}{x - 1} = \frac{2 - 3x^2}{x + 1}$ | $x_1 = 0; x_2 = 1; x_3 = -\frac{3}{4}$ |
| 5. $x^3 - x^2 - x + 1 = 0$ | $x_1 = 1; x_2 = -1$ |
| 6. $x^4 - 5x^2 + 4 = 0$ | $x_1 = 1; x_2 = -1; x_3 = 2; x_4 = -2$ |
| 7. $x^4 + 3x^2 - 4 = 0$ | $x_1 = 1; x_2 = -1$ |
| 8. $12x^4 - 7x^2 + 2 = 3x^4 + 6x^2 - 2$ | $x_1 = -\frac{2}{3}; x_2 = \frac{2}{3}; x_3 = -1; x_4 = 1$ |
| 9. $x^6 + x^4 = 2x^5 + 2x^3$ | $x_1 = 0; x_2 = 2$ |
| 10. $\sqrt{x+4} = 7$ | $x = 45$ |
| 11. $\sqrt{3-2x} - x = 6$ | $x_1 = -11; x_2 = -3$ |
| 12. $\sqrt{2x+4} = 1 + \sqrt{2x}$ | $x = \frac{9}{8}$ |
| 13. $x + 2\sqrt{x-1} - 4 = 0$ | $x_1 = 10; x_2 = 2$ |
| 14. $\sqrt{2-x^2} + \sqrt{x} = 0$ | $x_1 = -2; x_2 = 1$ |
| 15. $x - \sqrt{25-x^2} = 1$ | $x_1 = 4; x_2 = -3$ |
| 16. $\sqrt{x+1} + \sqrt{12-x} = 5$ | $x_1 = 3; x_2 = 8$ |
| 17. $\sqrt{7+2x} = 1 + \sqrt{3+x}$ | $x_1 = -3; x_2 = 1$ |
| 18. $\sqrt{2x+7} - \sqrt{x} = 2$ | $x_1 = 1; x_2 = 9$ |
| 19. $\sqrt{x+1} - x = 1$ | $x_1 = -1; x_2 = 0$ |
| 20. $\sqrt{2x-1} + \sqrt{1-x} = 1$ | $x_1 = 1; x_2 = \frac{5}{9}$ |
| 21. $\sqrt{x} = \sqrt{5x+36}$ | $x = -9$ |
| 22. $\sqrt{x+4} + \sqrt{2x-1} = 6$ | $x_1 = 221; x_2 = 5$ |
| 23. $\sqrt{3+x} + \sqrt{x} = \frac{6}{\sqrt{3+x}}$ | $x = 1$ |
| 24. $\log_2 16 =$ | $x = 4$ |
| 25. $\log_6 216$ | $x = 3$ |
| 26. $\log_5 25$ | $x = 2$ |
| 27. $\log_5 625$ | $x = 4$ |
| 28. $\log_3 729$ | $x = 6$ |
| 29. $\log_4 64$ | $x = 3$ |
| 30. $\log_2 512$ | $x = 9$ |
| 31. $\log_3 81$ | $x = 4$ |
| 32. $2^x = 64$ | $x = 6$ |

33. $\log(2x+7) = \log 5$ $x = -1$
34. $\log x + 3\log x = 8$ $x = 100$
35. $2\log x + \log x^2 = 8 + 3\log x$ $x = 10^8$
36. $\log(x+18) = 1 + \log x$ $x = 2$
37. $2\log(2x-2) = 1$ $x = \frac{4 \pm \sqrt{40}}{4} = \frac{2 \pm \sqrt{10}}{2}$
38. $\log 3x = \log 6 + 2\log x$ $x = \frac{1}{2}$
39. $2^{1-x^2} = \frac{1}{8}$ $x = 2$
40. $2^{3x} = 8^{-x+2}$ $x = 1$
41. $10^{5-x} = 100$ $x = 3$
42. $4^{3x-1} = 0,5^{x-2}$ $x = \frac{4}{7}$
43. $8^x = 128$ $x = \frac{7}{3}$
44. $2^x + 4^x - 272 = 0$ $x = 4$
45. $3^{3x+2} = 9^{2x-1}$ $x = 4$
46. $5^{x+1} = 25^{\sqrt{x}}$ $x = 1$
47. $3^{\frac{2x}{5}} = 27 \cdot 3^x$ $x = -5$
48. $(3^x)^3 \cdot 3^{-x} = \frac{3^x}{3^{x^2}}$ $x_1 = 0; x_2 = -1$
49. $2^{x^2+2x-5} \cdot 4^{2-x} = 8^{x+1}$ $x_1 = -1; x_2 = 4$
50. $7^{2x-1} \cdot \sqrt{7^x} = \frac{7^x}{(7^x)^x}$ $x_1 = \frac{1}{2}; x_2 = -2$
51. $\left. \begin{array}{l} x + 2z = -1 \\ y + 2z = 1 \\ x + 2y = -2 \end{array} \right\}$ $x = -2; y = 0; z = \frac{1}{2}$
52. $\left. \begin{array}{l} x + 2y + z = 9 \\ x - y - z = -10 \\ 2x - y + z = 5 \end{array} \right\}$ $x = -1; y = 1; z = 8$
53. $\left. \begin{array}{l} 3x + 4y - z = 3 \\ 3x - 3y + z = -8 \\ x - y + 2z = -6 \end{array} \right\}$ $x = -1; y = 1; z = -2$
54. $\left. \begin{array}{l} 2x - 5y + 3z = 4 \\ x - 2y + z = 3 \\ 5x + y + 7z = 11 \end{array} \right\}$ $x = 5; y = 0; z = -2$

55.
$$\left. \begin{array}{l} x^2 + y^2 = 10 \\ x - 2y = 1 \end{array} \right\}$$

$$x_1 = 3; x_2 = -\frac{13}{5}$$

$$y_1 = 1; y_2 = -\frac{9}{5}$$

56.
$$\left. \begin{array}{l} y = x^3 - x \\ y - 3x = 0 \end{array} \right\}$$

$$x_1 = 0; x_2 = 2; x_3 = -2$$

$$y_1 = 0; y_2 = 6; y_3 = -6$$

57.
$$\left. \begin{array}{l} x + y = 0 \\ x \cdot y = 1 \end{array} \right\}$$

s.s.r.

58.
$$\left. \begin{array}{l} y^2 - 8x = 0 \\ 2x - y - 8 = 0 \end{array} \right\}$$

$$x_1 = 8; x_2 = 2$$

$$y_1 = 8; y_2 = -4$$

59.
$$\left. \begin{array}{l} x = 9 + y \\ x \cdot y = 90 \end{array} \right\}$$

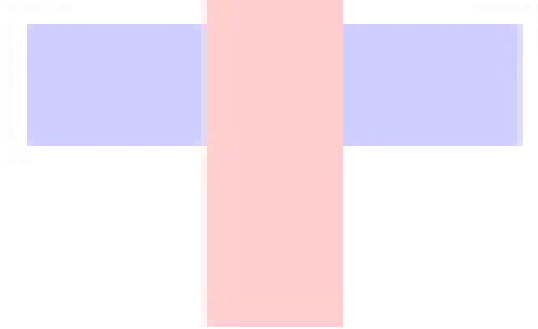
$$x_1 = 15; x_2 = -6$$

$$y_1 = 6; y_2 = -15$$

60.
$$\left. \begin{array}{l} x^2 + y^2 = 100 \\ x - 7y = 50 \end{array} \right\}$$

$$x_1 = -6; x_2 = 8$$

$$y_1 = -8; y_2 = -6$$



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