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1 Solve[{2 x - 2 y == 4, 2 x + 2 y == 20}, {x, y}]
{{x → 6, y → 4} }

2 Solve[{4.5 x + 4 y == 100, 3 x - 8 y == 10 }, {x, y}]
{{x → 17.5, y → 5.3125} }

3 Solve[{3 x + 7 y == 60, 2 x + 18 y == 80 }, {x, y}]
{{x → 13, y → 3} }

4 Solve[{5 x - y == 7, -x + 5 y == 1/7 }, {x, y}]
{{x → 41/28, y → 9/28} }

5 Solve[{81 x - 9 y == 1, 9 x + 81 y == 1 }, {x, y}]
{{x → 5/369, y → 4/369} }

6 Solve[{8.8 x + 1.1 y == 4.4, 9.9 x + 5.5 y == -7.7 }, {x, y}]
{{x → 0.870968, y → -2.96774} }

7 Solve[{-3 x + y == 6, 9 + 5 y == x }, {x, y}]
{{x → -39/14, y → -33/14} }

8 Solve[{x - 7 y == -49, -2 x + y == 98}, {x, y}]
{{x → -49, y → 0} }

9 Solve[{6 x / 5 - 7 y / 10 == 1, 10 y + 7 x / 2 == 35 / 12}, {x, y}]
{{x → 5/6, y → 0} }

10 Solve[{2 (x - 3 y) / 7 == 1 / 14, 1 - x - 7 y == 15 / 4}, {x, y}]
{{x → -13/20, y → -3/10} }

11 Solve[{\frac{x-y}{2 x-y} == 5 / 11, (9 - 3 y) * 2 == -x}, {x, y}]
{ }

12 Solve[{\frac{y}{x-y} == 1, 3 y - x == 18}, {x, y}]
{{x → 36, y → 18} }

13 Solve[{(x / 2) + y == 20, y - 2 x == -20}, {x, y}]
{{x → 16, y → 12} }

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$$14 \text{ Solve}\left[\left\{\frac{(x - 10)}{2} + \frac{y + 5}{8} = 3x, \frac{4y + 1}{5} - \frac{3x}{15} = y/3\right\}, \{x, y\}\right]$$

$$\left\{\left\{x \rightarrow -\frac{248}{137}, y \rightarrow -\frac{165}{137}\right\}\right\}$$

$$15 \text{ Solve}\left[\left\{\frac{1-x-y}{7} = x/21, \frac{x-y}{3} = 1\right\}, \{x, y\}\right]$$

$$\left\{\left\{x \rightarrow \frac{12}{7}, y \rightarrow -\frac{9}{7}\right\}\right\}$$

$$16 \text{ Solve}\left[\left\{\frac{1-x}{-x} + x/3 = x-1, \frac{y}{1-2y} + y/6 = \frac{1-y}{-6}\right\}, \{x, y\}\right]$$

$$\left\{\left\{y \rightarrow -\frac{1}{4}, x \rightarrow \frac{1}{2}(3 - \sqrt{3})\right\}, \left\{y \rightarrow -\frac{1}{4}, x \rightarrow \frac{1}{2}(3 + \sqrt{3})\right\}\right\}$$

$$17 \text{ Solve}\left[\{x/9 + y = x, 1 - y/2 = x\}, \{x, y\}\right]$$

$$\left\{\left\{x \rightarrow \frac{9}{13}, y \rightarrow \frac{8}{13}\right\}\right\}$$

$$18 \text{ Solve}\left[\{9x - 8y = 0, \frac{x-y}{2} - y = x\}, \{x, y\}\right]$$

$$\left\{\left\{x \rightarrow 0, y \rightarrow 0\right\}\right\}$$

$$19 \text{ Solve}\left[\left\{1 + x/3 - \frac{1}{x-y} = x/3, 2x - 3y = 6\right\}, \{x, y\}\right]$$

$$\left\{\left\{x \rightarrow -3, y \rightarrow -4\right\}\right\}$$

$$20 \text{ Solve}\left[\left\{\frac{2x + 3y + 4}{5} = \frac{x + 2y + 3}{4}, \frac{-x - 2y - 3}{4} = \frac{-2y - 3x - 4}{5}\right\}, \{x, y\}\right]$$

$$\left\{\left\{x \rightarrow -\frac{1}{5}, y \rightarrow -\frac{1}{5}\right\}\right\}$$

$$21 \text{ Solve}\left[\left\{\frac{x - (5 - y)}{1 + y} = 9, \frac{x - y}{x + y} = 5/9\right\}, \{x, y\}\right]$$

$$\left\{\left\{x \rightarrow -\frac{98}{9}, y \rightarrow -\frac{28}{9}\right\}\right\}$$

$$22 \text{ Solve}\left[\left\{6 = \frac{1 - 6x}{6y}, 7 = 63 * \frac{1 - 7y}{25x}\right\}, \{x, y\}\right]$$

$$\left\{\left\{x \rightarrow \frac{1}{2}, y \rightarrow -\frac{1}{18}\right\}\right\}$$

$$23 \text{ Solve}\left[\left\{\frac{1}{x - y - 2} = 1/x, \frac{4}{1 - x} = \frac{1}{y - 1}\right\}, \{x, y\}\right]$$

$$\left\{\left\{x \rightarrow 13, y \rightarrow -2\right\}\right\}$$

$$24 \text{ Solve}\left[\left\{\frac{2y-x}{18} - \frac{3x+y}{9} = 1/36, \frac{4x-9y}{3} - \frac{8x-8y}{6} = 1/12\right\}, \{x, y\}\right]$$

$$\left\{\left\{x \rightarrow -\frac{1}{14}, y \rightarrow -\frac{1}{20}\right\}\right\}$$

$$25 \text{ Solve}\left[\left\{\frac{21x-y}{3} = 8x/2 + 9 * \frac{x+1}{3}, y+x*(1-y)-1 = 1-x*(1+y)+1+2x\right\}, \{x, y\}\right]$$

{}

$$26 \text{ Solve}\left[\left\{\frac{2x-1}{y+1} = \frac{2x}{y-1}, \frac{2x+1}{x+10} = \frac{2(3+y)}{y-1}\right\}, \{x, y\}\right]$$

$$\left\{\left\{x \rightarrow \frac{20}{17}, y \rightarrow -\frac{63}{17}\right\}\right\}$$

$$27 \text{ Solve}\left[\left\{-\frac{2x+3y}{5} + \frac{-3x-y}{4} = 1, \frac{-2x}{3} - \frac{-3x-y}{-4} = -1\right\}, \{x, y\}\right]$$

$$\left\{\left\{x \rightarrow \frac{6}{5}, y \rightarrow -\frac{14}{5}\right\}\right\}$$

$$28 \text{ Solve}\left[\left\{14x+y/2 = 188, 6x+y/8 = 159/2\right\}, \{x, y\}\right]$$

$$\left\{\left\{x \rightarrow 13, y \rightarrow 12\right\}\right\}$$

$$29 \text{ Solve}\left[\left\{\frac{x-12}{7-y} = \frac{x-13}{11-y}, \frac{2x+4}{10+x} = \frac{34-2y}{18-y}\right\}, \{x, y\}\right]$$

$$\left\{\left\{x \rightarrow 14, y \rightarrow 15\right\}\right\}$$

$$30 \text{ Solve}\left[\left\{\frac{3x-2y}{3x-y} = 10/16, x+y = 20\right\}, \{x, y\}\right]$$

$$\left\{\left\{x \rightarrow 11, y \rightarrow 9\right\}\right\}$$

$$31 \text{ Solve}\left[\left\{\frac{2y-8}{4} + \frac{x+3}{20} = 3/4, \frac{4x-y}{3} - \frac{3x-1}{10} = 1/2\right\}, \{x, y\}\right]$$

$$\left\{\left\{x \rightarrow 2, y \rightarrow 5\right\}\right\}$$

$$32 \text{ Solve}\left[\left\{5x/2 - 10y/3 = 10, 22x/3 - 11y/2 = 55\right\}, \{x, y\}\right]$$

$$\left\{\left\{x \rightarrow 12, y \rightarrow 6\right\}\right\}$$

$$33 \text{ Solve}\left[\left\{-x+2y = 1, 2x+4y = 6+4x\right\}, \{x, y\}\right]$$

{}

34 Solve [{ $\frac{7x + 4y}{3} - \frac{8(x - 2y)}{4} = 7 - x + 7y$, $2x - y / 3 + 7 = \frac{x - 3y}{3}$ }, {x, y}]
{ {x → - $\frac{21}{11}$, y → - $\frac{63}{11}$ } }

35 Solve [{ $2/x - 3/y = 0$, $3(x + 1) - 2(y - 3) = 2x + 1$ }, {x, y}]
{ {x → 4, y → 6} }

36 Solve [{ $\frac{7y - x}{4} - \frac{6x - 4y + 2}{7} = \frac{3x + 1}{14} + \frac{1}{21}(4x + 6y + 6)$,
 $\frac{3x + 3}{5} + \frac{2x + y + 2}{3} = \frac{9y - 2x}{15} + \frac{5x + 2y + 1}{5}$ }, {x, y}]
{ {x → 9, y → 7} }

37 Solve [{ $\frac{ax}{2} + \frac{y}{2a + 2b} = a - b$, $\frac{ay}{a - b} - abx = a^2 + b^2$ }, {x, y}]
{ {y → 2a² - a ax - ax b - 2b²} }

38
Solve [{ $\frac{4y + x}{12} + \frac{2x - 1}{6} - 24 = 12x - y / 2$, $\frac{6y + 2x + 1}{6} + \frac{x - 7y}{12} = -y + \frac{x + 12}{12} - x / 4$ }, {x, y}]
{ {x → - $\frac{1610}{811}$, y → $\frac{1140}{811}$ } }

39 Solve [{ $\frac{ux - vy}{4x} - \frac{vy}{2} = \frac{u - vy}{2}$, $\frac{u - 3x}{2} + \frac{v - 3y}{6} = 1$ }, {x, y}]
{ {y → -2 + u + $\frac{v}{3} + \frac{3(-ux + vy)}{2u}$, x → - $\frac{-ux + vy}{2u}$ } }

40 Solve [{ $\frac{7x - y}{4} - \frac{2(1 - y)}{44} = \frac{4x - y + 1}{11} + 6y / 22$, $\frac{x - 4y}{11} + 1 / 2 = \frac{-2(1 - y)}{44} + \frac{5x - 2y}{2}$ }, {x, y}]
{ {x → $\frac{7}{6}$, y → $\frac{23}{6}$ } }

41 Solve [{ $\frac{r}{s - 2x} + \frac{4s}{s + 2x} = \frac{1}{s^2 - 4x^2}$, $1 / x - \frac{1}{s + r + y} = \frac{1}{x - r}$ }, {x, y}]

{ {y → $\frac{-1 + 2r^2 - 4r^4 - 6rs + 26r^3s + 8s^2 - 33r^2s^2 - 40rs^3 - 16s^4}{4r(r - 4s)^2}$, x → $\frac{1 - rs - 4s^2}{2(r - 4s)}$ } }

42 Solve [{ $1 + \frac{2x - 3y + 4}{5} - \frac{6x - 20y}{5} + \frac{24x}{10} = 0$, $1 - \frac{6y + 20x}{5} + 36y / 30 = 0$ }, {x, y}]
{ {x → $\frac{1}{4}$, y → - $\frac{11}{17}$ } }

43 Solve[$\{y/2 = 3/4 * x, x * y = 54\}, \{x, y\}$]

Out[3]= $\{\{x \rightarrow -6, y \rightarrow -9\}, \{x \rightarrow 6, y \rightarrow 9\}\}$

44 Solve[$\{3x^2 + 4y^2 = 16, 3y^2 + 4x^2 = 19\}, \{x, y\}$]

Out[4]= $\{\{x \rightarrow -2, y \rightarrow -1\}, \{x \rightarrow -2, y \rightarrow 1\}, \{x \rightarrow 2, y \rightarrow -1\}, \{x \rightarrow 2, y \rightarrow 1\}\}$

45 Solve[$\{3x/2 + 2y = 17, x * y / 2 = 12\}, \{x, y\}$]

Out[5]= $\{\{x \rightarrow \frac{16}{3}, y \rightarrow \frac{9}{2}\}, \{x \rightarrow 6, y \rightarrow 4\}\}$

46 Solve[$\{2x^2 - 6y * x + 2y^2 = 88, y * x = 20\}, \{x, y\}$]

Out[6]= $\{\{x \rightarrow -10, y \rightarrow -2\}, \{x \rightarrow -2, y \rightarrow -10\}, \{x \rightarrow 2, y \rightarrow 10\}, \{x \rightarrow 10, y \rightarrow 2\}\}$

47 Solve[$\{5x/2 + 10y = 8, 1/y * x = 1\}, \{x, y\}$]

Out[7]= $\{\{x \rightarrow \frac{16}{25}, y \rightarrow \frac{16}{25}\}\}$

48 Solve[$\{4x^2 - 2y^2 = 64, x/2 - y = 2\}, \{x, y\}$]

Out[8]= $\{\{x \rightarrow -\frac{36}{7}, y \rightarrow -\frac{32}{7}\}, \{x \rightarrow 4, y \rightarrow 0\}\}$

49 Solve[$\{x^2 + y^2 = 125, x^2/5 - y^2/10 = 0\}, \{x, y\}$]

Out[9]= $\{\{x \rightarrow -5\sqrt{\frac{5}{3}}, y \rightarrow -5\sqrt{\frac{10}{3}}\}, \{x \rightarrow -5\sqrt{\frac{5}{3}}, y \rightarrow 5\sqrt{\frac{10}{3}}\}, \{x \rightarrow 5\sqrt{\frac{5}{3}}, y \rightarrow -5\sqrt{\frac{10}{3}}\}, \{x \rightarrow 5\sqrt{\frac{5}{3}}, y \rightarrow 5\sqrt{\frac{10}{3}}\}\}$

50 Solve[$\{\frac{a(2-y)}{3} = \frac{x+a}{b}, ((y-x)^2)/4 = 1 - \frac{y * x - \frac{x^2}{2}}{2}\}, \{x, y\}$]

Out[10]= $\{\{x \rightarrow -a, y \rightarrow 2\}, \{x \rightarrow -a + \frac{4ab}{3}, y \rightarrow -2\}\}$

Out[11]= $\left\{ \begin{array}{l} \{x \rightarrow \frac{1}{9+6ab} \left(a \left(-9 + 2ab^2 - b \left(-6 + 3a + \sqrt{a^2(3-2b)^2 - 18(-2+yx) - 12ab(-2+yx)} \right) \right) \right), \\ y \rightarrow \frac{a(-3+2b) + \sqrt{a^2(3-2b)^2 - 18(-2+yx) - 12ab(-2+yx)}}{3+2ab} \}, \\ \{x \rightarrow \frac{1}{9+6ab} \left(a \left(-9 + 2ab^2 + b \left(6 - 3a + \sqrt{a^2(3-2b)^2 - 18(-2+yx) - 12ab(-2+yx)} \right) \right) \right), \\ y \rightarrow \frac{-3a + 2ab - \frac{1}{2}\sqrt{a^2(6-4b)^2 - 24(3+2ab)(-2+yx)}}{3+2ab} \} \end{array} \right\}$

51 Solve[$\{x/2 + y/2 = a, y * x = a^2 - b^2\}, \{x, y\}$]

Out[12]= $\{\{x \rightarrow a - b, y \rightarrow a + b\}, \{x \rightarrow a + b, y \rightarrow a - b\}\}$

52 Solve[{ $x + 2y = 20$, $x^2 + y^2 = 100$ }, {x, y}]

{ $\{x \rightarrow 0, y \rightarrow 10\}$, $\{x \rightarrow 8, y \rightarrow 6\}$ }

53 Solve[{ $\frac{15}{3x+9} + \frac{4}{2y-2} = 2$, $\frac{1}{x} - \frac{3}{4y} = \frac{1}{4}$ }, {x, y}]

{ $\{x \rightarrow -\frac{7}{5}, y \rightarrow -\frac{7}{9}\}$, $\{x \rightarrow 2, y \rightarrow 3\}$ }

54 Solve[{ $\frac{x^2}{y^2} + x/y = 10/9$, $x*y = 6$ }, {x, y}]

Out[10]= { $\{x \rightarrow -2, y \rightarrow -3\}$, $\{x \rightarrow 2, y \rightarrow 3\}$, $\{x \rightarrow -i\sqrt{10}, y \rightarrow 3i\sqrt{\frac{2}{5}}\}$, $\{x \rightarrow i\sqrt{10}, y \rightarrow -3i\sqrt{\frac{2}{5}}\}$ }

Mit drei Variablen :

55 Solve[{ $x = 1 + 2x$, $y = x + z$, $z = 2 + x$ }, {x, y, z}]

{ $\{x \rightarrow -1, y \rightarrow 0, z \rightarrow 1\}$ }

56 Solve[{ $2x + y - z = 10$, $z - 5y + x = 5$, $-6x = -30 + y + z$ }, {x, y, z}]

{ $\{x \rightarrow 5, y \rightarrow 0, z \rightarrow 0\}$ }

57 Solve[{ $5x - 2y + 3z = -10$, $7x - 9y + z = 10$, $10x - 4y + 6z = 10$ }, {x, y, z}]

{}

58 Solve[{ $x - 10y + z = 0$, $x = 4z$, $x + y + z = 12$ }, {x, y, z}]

{ $\{x \rightarrow \frac{96}{11}, y \rightarrow \frac{12}{11}, z \rightarrow \frac{24}{11}\}$ }

59 Solve[{ $6z + y - x = 100$, $x - 2y + z = 40$, $21 = -3x + y$ }, {x, y, z}]

{ $\{x \rightarrow -\frac{413}{32}, y \rightarrow -\frac{567}{32}, z \rightarrow \frac{559}{32}\}$ }

60 Solve[{ $5x + y - z = 17$, $x - y = 20 - z$, $-5x - y + z = -17$ }, {x, y, z}]

{ $\{x \rightarrow \frac{37}{6}, y \rightarrow -\frac{83}{6} + z\}$ }

61 Solve[{- $14x + 7y + 21z = 3$, $-x + 14y + 6z = 2$, $-19x - 7y + 23z = -5$ }, {x, y, z}]

{}

62 Solve[{ $x - 2y + 3z = 1$, $x - 2y = -7$, $x + 3z = 11$ }, {x, y, z}]

{ $\{x \rightarrow 3, y \rightarrow 5, z \rightarrow \frac{8}{3}\}$ }

63 `Solve[{4 x + 2 y - 6 z == -8, -2 x - 2 y - 3 z == 0, -8 y - 16 z == 0 }, {x, y, z}]`

$$\left\{ \left\{ x \rightarrow \frac{1}{2}, y \rightarrow -2, z \rightarrow 1 \right\} \right\}$$

64 `Solve[{10 x + 6 z == 20, z + 9 x == 18, x + 2 == 4 }, {x, y, z}]`

$$\left\{ \left\{ x \rightarrow 2, z \rightarrow 0 \right\} \right\}$$

65 `Solve[{x - y == 7, x + y == 14, x + z == -1 }, {x, y, z}]`

$$\left\{ \left\{ x \rightarrow \frac{21}{2}, y \rightarrow \frac{7}{2}, z \rightarrow -\frac{23}{2} \right\} \right\}$$

66 `Solve[{4 x + 8 y == 1, 1 == 3 z + x, 1 == y - x }, {x, y, z}]`

$$\left\{ \left\{ x \rightarrow -\frac{7}{12}, y \rightarrow \frac{5}{12}, z \rightarrow \frac{19}{36} \right\} \right\}$$

67 `Solve[{-6 x - 7 y - 41 z == 1, x + 14 y - 6 z == 2, -5 x + 7 y - 47 z == -3 }, {x, y, z}]`

$$\left\{ \right\}$$

68 `Solve[{4 x + 4 x + 8 z == 4, 2 x + 2 y + 4 z == 2, -3 x - 3 y - 6 z == 4 }, {x, y, z}]`

$$\left\{ \right\}$$

69 `Solve[{6 x + 25 y - 24 z == 2, -12 x - 7 y + 5 z == 1, 12 x + 2 y == 0 }, {x, y, z}]`

$$\left\{ \right\}$$

70 `Solve[{x + 4 y - 7 z == 9, y - 9 z == -7, 16 z - 16 == 0 }, {x, y, z}]`

$$\left\{ \left\{ x \rightarrow 8, y \rightarrow 2, z \rightarrow 1 \right\} \right\}$$

71 `Solve[{6 x - y - z == 81, 4 (x - y) + z == 9, x - 2 (x + 2 y - z) == 9 }, {x, y, z}]`

$$\left\{ \left\{ x \rightarrow -63, y \rightarrow -144, z \rightarrow -315 \right\} \right\}$$

72 `Solve[{6 x - 6 y + 6 z == 12, 3 x - 3 y - 3 z == 9, 81 x + 81 y - 81 z == 162 }, {x, y, z}]`

$$\left\{ \left\{ x \rightarrow 2, y \rightarrow -\frac{1}{2}, z \rightarrow -\frac{1}{2} \right\} \right\}$$

73 `Solve[{-x - 5 y + z == 0, z + 2 y == 1, y + z == 0 }, {x, y, z}]`

$$\left\{ \left\{ x \rightarrow -6, y \rightarrow 1, z \rightarrow -1 \right\} \right\}$$

74 `Solve[{-42 x - 21 y - 42 z == 21, (x + y) / z == 21, 7 x - y + 2 z == 21 }, {x, y, z}]`

$$\left\{ \left\{ x \rightarrow \frac{16}{7}, y \rightarrow -\frac{37}{7}, z \rightarrow -\frac{1}{7} \right\} \right\}$$

75 `Solve[{-4 x + 8 y + 4 z == 81, -9 x - 9 y + 18 z == 2, 720 x + 1152 y - 1584 z == 2 }, {x, y, z}]`

$$\left\{ \right\}$$

Mit mehreren Variablen

76 Solve[$\{x + y + z = 100, x/y/z = 12/6/2\}, \{x, y, z\}\}$]

$$\left\{ \left\{ x \rightarrow \frac{100z - z^2}{1+z}, y \rightarrow \frac{100-z}{1+z} \right\} \right\}$$

77 Solve[$\{x + y = 8, y + z = 14, z + n = 22, n - x = 10\}, \{x, y, z\}\}$]

{}

78 Solve[$\{\frac{1}{x+y} = 6/5, 1/(x+z) = 8/6, 1/(y+z) = 12/7\}, \{x, y, z\}\}$]

$$\left\{ \left\{ x \rightarrow \frac{1}{2}, y \rightarrow \frac{1}{3}, z \rightarrow \frac{1}{4} \right\} \right\}$$

79 Solve[

$$\{1 + u + 2v + 3w = x, x = u + v - w, -w + 2u = u - v + x, u + 2v = w, 1 - w = 2\}, \{u, v, w, x\}$$

{ $\{u \rightarrow -7, v \rightarrow 3, w \rightarrow -1, x \rightarrow -3\}\}$ }

80 Solve[$\{10a/b + c = 5, 2/45a + 1/5c = 2/45, (a+b+c)/6 = 1\}, \{a, b, c\}\}$]

$$\begin{aligned} & \left\{ \left\{ a \rightarrow \frac{1}{28} (-1007 - 9\sqrt{14065}), c \rightarrow \frac{1}{7} \left(\frac{115}{2} + \frac{\sqrt{14065}}{2} \right), b \rightarrow \frac{1}{4} (135 + \sqrt{14065}) \right\}, \right. \\ & \left. \left\{ a \rightarrow \frac{1}{28} (-1007 + 9\sqrt{14065}), c \rightarrow \frac{1}{14} (115 - \sqrt{14065}), b \rightarrow \frac{1}{4} (135 - \sqrt{14065}) \right\} \right\} \end{aligned}$$

81 Solve[$\{10a + y + v = -1, b + y + 3v = 0, a - 21 = b + v, b - v = y\}, \{a, b, v, y\}\}$]

{ $\{a \rightarrow 21, b \rightarrow -211, v \rightarrow 211, y \rightarrow -422\}\}$ }

82 Solve[$\{3a + 2b - c + 8d - e = -22, -4a + 9b + c/2 + d/2 + e = 16, a + 8b - 4c - d + e/4 = -5, -2a + b + 9c - d - e = 12, 10a + 11b - c - 11d + 4e = -4\}, \{a, b, c, d, e\}\}$]

{ $\{a \rightarrow -3, b \rightarrow 0, c \rightarrow 1, d \rightarrow -1, e \rightarrow 4\}\}$ }

83 Solve[$\{\frac{y + \frac{x}{4} + 3}{4} + 1 = x, \frac{1}{\frac{4}{3}y + \frac{2}{3}x} = x - y\}, \{x, y\}\}$]

$$\left\{ \left\{ x \rightarrow \frac{4}{49} (20 - \sqrt{57}), y \rightarrow \frac{1}{49} (-43 - 15\sqrt{57}) \right\}, \left\{ x \rightarrow \frac{4}{49} (20 + \sqrt{57}), y \rightarrow \frac{1}{49} (-43 + 15\sqrt{57}) \right\} \right\}$$

84 Solve[

$$\left\{ \left\{ \frac{\frac{a-2c}{8} + 11}{e} = 2, \frac{e-2a}{3} - c \frac{2b+a}{8} = 0, a/2 + 6c + e = 3, a + b - 12c - e = 17 \right\}, \{a, b, c, e\} \right\}$$

{ $\{b \rightarrow 5, e \rightarrow 6, a \rightarrow 6, c \rightarrow -1\}, \{b \rightarrow \frac{17135}{333}, e \rightarrow \frac{4328}{999}, a \rightarrow -\frac{16378}{999}, c \rightarrow \frac{127}{111}\}\}$ }