

פתרונות גורם משותף

1.	$5x^2 + 15x = 5x(x + 3)$	11.	$36y^3x - 42x^3y = 6xy(6y^2 - 7x^2)$
2.	$2xy - 4x^2 = 2x(y - 2x)$	12.	$24xy^4 + 12x^3y^2 = 12xy(2y^3 + x^2y)$
3.	$12xy + 27xy^2 = 3xy(4 + 9y)$	13.	$8tz - 48t^2z + 16 = 8(tz - 6t^2z + 2) /$ $8tz(1 - 6t) + 16$
4.	$-6t^3 + t^2z = t^2(-6t + z)$	14.	$t^4z + t^3x - t^2p = t^2(t^2z + tx - p)$
5.	$10a + 30ab + 45 = 5(2a + 6ab + 9)$	15.	$2x - yx + yx^2 = x(2 - y + yx) /$ $2x - xy(1 - x)$
6.	$2 + 14ab - 8b + 10a = 2(1 + 7ab - 4b + 5a)$	16.	$9z + 2z^2 + z^3 + 5z^4 = z(9 + 2z + z^2 + 5z^3)$
7.	$18 - 39a + 45t + 3a = 18 - 36a + 45t = 3(6 - 12a + 15t)$	17.	$-16x^2 + 5z^2 - 3 = -16x^2 + 5z^2 - 3$
8.	$28kn + 49k + 63 = 7k(4n + 7) + 63 / 7(4kn + 7k + 9)$	18.	$a^3b^4 - a^4b^3 = a^3b^3(b - a)$
9.	$t^3 - t^4 = t^3(1 - t)$	19.	$10x^2z - 6z + 14xz^2 - 3 = 2xz(5x + 7z) - 3(1 + 2z) /$ $2z(5x^2 - 3 + 7xz) - 3$
10.	$y^{10} + y^8 = y^8(y^2 + 1)$	20.	$169a^4b^3 + 26a^2b - 39a^3 = 13a^2(13a^2b^3 + 2b - 3a)$

1.	$\frac{4x+24}{4} = \frac{4(x+6)}{4} = x+6$
2.	$\frac{5x-25}{5} = \frac{5(x-5)}{5} = x-5$
3.	$\frac{12+4x}{8} = \frac{4(3+x)}{8} = \frac{3+x}{2}$
4.	$\frac{3x+9}{3} = \frac{3(x+3)}{3} = x+3$
5.	$\frac{21x-35}{28} = \frac{7(3x-5)}{28} = \frac{3x-5}{4}$
6.	$\frac{10a+a^2}{10a} = \frac{a(10+a)}{10a} = \frac{10+a}{10} =$
7.	$\frac{12y^2+4y}{16y} = \frac{4y(3y+1)}{16y} = \frac{3y+1}{4}$
8.	$\frac{5x^2+15x}{5x} = \frac{5x(x+3)}{5x} = x+3$
9.	$\frac{x}{2x^2-7x} = \frac{x}{x(2x-7)} = \frac{1}{2x-7}$
10.	$\frac{11x}{22x^2+11x} = \frac{11x}{11x(2x+1)} = \frac{1}{2x+1}$
11.	$\frac{9y^2+9y}{4y+4} = \frac{9y(y+1)}{4(y+1)} = \frac{9y}{4} = 2\frac{1}{4}y$
12.	$\frac{12a^2+7a}{7a^2-9a} = \frac{a(12a+7)}{a(7a-9)} = \frac{12a+7}{7a-9}$
13.	$\frac{10x^2+20x}{30x-40x^2} = \frac{10x(x+2)}{10x(3-4x)} = \frac{x+2}{3-4x}$
14.	$\frac{14x^2+8x}{28x+16} = \frac{2x(7x+4)}{4(7x+4)} = \frac{x}{2}$
15.	$\frac{8y^2-20y}{10y-25} = \frac{4y(2y-5)}{5(2y-5)} = \frac{4y}{5}$