

I ТИП

1. $(5x - 4)(5x + 4) = 25x^2 - 16$
2. $\left(\frac{7}{8}x - 6\right)\left(\frac{7}{8}x + 6\right) = \frac{49}{64}x^2 - 36$
3. $(2,6x - 5,4)(2,6x + 5,4) = 6,76x^2 - 29,16$
4. $(\sqrt{5} - 5x)(\sqrt{5} + 5x) = 5 - 25x^2$
5. $\left(\frac{6}{7}x - 2,5y\right)\left(\frac{6}{7}x + 2,5y\right) = \frac{36}{49}x^2 - 6,25y^2$
6. $(3\sqrt{8}x - 1,1y)(3\sqrt{8}x + 1,1y) = 72x^2 - 1,21y^2$
7. $\left(\frac{5}{9}y - 2,1x\right)\left(\frac{5}{9}y + 2,1x\right) = \frac{25}{81}y^2 - 4,41x^2$

II ТИП

1. $25x^2 - 49 = (5x - 7)(5x + 7)$
2. $\frac{49}{144}x^2 - 121 = \left(\frac{7}{12}x - 11\right)\left(\frac{7}{12}x + 11\right)$
3. $0,0064x^2 - 25y^2 = (0,08x - 5y)(0,08x + 5y)$
4. $\frac{64}{25}x^2 - 0,81y^2 = \left(\frac{8}{5}x - 0,9y\right)\left(\frac{8}{5}x + 0,9y\right)$
5. $0,000256x^2 - 0,36y^2 = (0,016x - 0,6y)(0,016x + 0,6y)$
6. $\frac{16}{25}x^8a^{12} - 25y^{30} = \left(\frac{4}{5}x^4a^6 - 5y^{15}\right)\left(\frac{4}{5}x^4a^6 + 5y^{15}\right)$

III ТИП

1. $4x^2 + 12xy + 9y^2 = (2x + 3y)^2$
2. $49x^2 - 70x + 25 = (7x - 5)^2$
3. $64x^2 - 144xy + 81y^2 = (8x - 9y)^2$
4. $25y^2 + 70xy + 49x^2 = (5y + 7x)^2$
5. $\frac{25}{4}x^2 - \frac{35}{3}xy + \frac{49}{9}y^2 = \left(\frac{5}{2}x - \frac{7}{3}y\right)^2$

IV ТИП

1. $(2 - 5x)^2 = 4 - 20x + 25x^2$
2. $(2x + 7y)^2 = 4x^2 + 28xy + 49y^2$
3. $(3x - 4y)^2 = 9x^2 - 24xy + 16y^2$
4. $\left(\frac{3}{4}x + 3y\right)^2 = \frac{9}{16}x^2 + \frac{9}{2}xy + 9y^2$
5. $(2\sqrt{3}x - 3y)^2 = 12x^2 - 12\sqrt{3}xy + 9y^2$
6. $\left(\frac{1}{2} - 3x\right)^2 = \frac{1}{4} - 3x + 9x^2$
7. $(3\sqrt{3} - 2\sqrt{2}x)^2 = 27 - 12\sqrt{6}x + 8x^2$

V ТИП

1. $10x^3y^3z - 25x^5yz^6 = 5x^3yz(2y^2 - 5x^2z^5)$
2. $12x^3y^3 - 16x^{12}yz^5 = 4x^3y(3y^2 - 4x^9z^5)$
3. $-27xy^3z - 36x^2yz^2 = -9xyz(3y^2 + 4xz)$