

Разложить на множители методом расщепления

$$1) 14x^2 + 5xy - y^2 + 6xz + 3yz = 14x^2 + 7xy - 2xy - y^2 + 6xz + 3yz =$$

$$7x(2x+y) + y(-2x-y) + 3z(2x+y) = 7x(2x+y) - y(2x+y) + 3z(2x+y) = (2x+y)(7x-y+3z)$$

$$2) -15x^2 + 41xy - 3xz - 14y^2 + 7yz = -15x^2 + 35xy + 6xy - 3xz - 14y^2 + 7yz =$$

$$3x(-5x-z) + 7y(5x+z) + 2y(3x-7y) = -3x(5x+z) + 7y(5x+z) + 2y(3x-7y) = (5x+z)(-3x+7y) + 2y(3x-7y)$$

$$= (5x+z)(-3x+7y) - 2y(-3x+7y) = (5x+z-2y)(-3x+7y)$$