

Раскрыть скобки

$$1) 5x(x - 2) = 5x * x + 5x * (-2) =$$

$$2) (x^2 + 3xy)(2 + 7x + y) = \dots$$

$$3)(a+b)*(c+d)=$$

$$4)(2x-1)(x-y)=$$

$$5x(x - 2) = 5x(x + (-2)) = 5x * x + 5x * (-2) = 5x^2 - 10x$$

$$7y(2y-3) = 7y * 2y + 7y * (-3) = 14y^2 - 21y$$

$$-z(5-2z) = -z * 5 + (-z) * (-2z) = -5z + 2z^2$$

$$-(2-t) = (-1) * (2-t) = -2 + t$$

$$-(-y+2x) = (-1) * (-y+2x) = y - 2x$$

$$(a+b)*(c+d) = (a+b)*c + (a+b)*d = ac + bc + ad + bd$$

$$(a+b)*(c+d) = (c+d)*a + (c+d)*b = ca + da + cb + db$$

$$(2x-1)(x-y) = (2x-1)*x + (2x-1)*(-y) = 2x^2 + (-1)x + (-2)xy + 1y = 2x^2 - x - 2xy + y$$

$$(x-y)(2x-1) = (x-y)*2x + (x-y)*(-1) = 2x^2 + (-2)xy + (-1)x + 1y = 2x^2 - 2xy - x + y$$

$$(x^2 + 3xy)(2 + 7x + y) =$$

$$= (x^2 + 3xy) * 2 + (x^2 + 3xy) * 7x + (x^2 + 3xy) * y =$$

$$= 2x^2 + 6xy + 7x^3 + 21x^2y + x^2y + 3xy^2 =$$

$$= 2x^2 + 6xy + 7x^3 + 22x^2y + 3xy^2$$

$$(x^2 + 3xy)(2 + 7x + y) = (2+7x+y)*x^2 + (2+7x+y)*3xy =$$

$$= 2x^2 + 7x^3 + yx^2 + 6xy + 21yx^2 + 3xy^2 =$$

$$= 2x^2 + 7x^3 + 6xy + 22yx^2 + 3xy^2$$

Мы знаем!

Распределительный закон умножения.

Раскрытие скобок

$$a(b + c) \Rightarrow ab + ac$$

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$$3*5 = 5*3$$

приведение  
подобных  
слагаемых