

perform operation on the right side of the equation $-5x(2x-3)+5x^2-3$

Find type of expression on the right side

right side has the form of the multiplication of the polynomial by monomial

$$a(bx+c)+fx^2+gx+h$$

multiply the polynomial $2x-3$ by monomial $-5x$

the result of multiplication is polynomial $-10x^2+15x$

insert the result of multiplication into equation

$$-5x(2x-3)+5x^2-3=-10x^2+15x+5x^2-3$$

simplify the result of multiplication by combining like terms $-10x^2+15x+5x^2-3$

find and combine like terms in polynomial $-10x^2+15x+5x^2-3$

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The result of performing all operations on the right side of equation is the polynomial $-5x^2+15x-3$

Insert this result into equation

$$-9x^2-4x+20=-5x^2+15x-3$$