Equation $-9x^2-4x+20=-5x^2+15x-3$ is not in proper form
right side $5x^2+15x-3$ is not equal to zero

Transform the equation into proper form
add terms of the right side multiplied by -1 to both sides of equation
multiply ($-5x^2+15x-3$) by -1
$\qquad -1(-5x^2+15x-3)=5x^2-15x+3$
add the result to both sides
$\qquad -9x^2-4x+20+5x^2-15x+3=-5x^2+15x-3+5x^2-15x+3$
equation $-9x^2-4x+20+5x^2-15x+3=0$ is obtained as the result of this operation
there is a need to simplify expression $-9x^2-4x+20+5x^2-15x+3$

simplify the result $-9x^2-4x+20+5x^2-15x+3=0$ by combining like terms

find and combine like terms in polynomial $-9x^2-4x+20+5x^2-15x+3=0$

the result of combining like terms is polynomial $-4x^2-19x+23$

after inserting into source equation the following equation is obtained
$$-4x^2-19x+23=0$$