- STEP 1: Put equation in standard form (equal to zero)
- STEP 2: Divide each term by the coefficient of x^2
- STEP 3: Move the constant to the right side.
- STEP 4: Multiply coefficient of x by $\frac{1}{2}$.

Square the result, and add it to both sides of equation. (Note: MIDDLE TERM DOES NOT CHANGE)

- STEP 5: Rewrite left side as the square of a binomial. Combine terms on the right side.
- STEP 6: Take the square root of both sides. (Note: REMEMBER THE ± SIGN.)

STEP 7: Move the constant to the right side.

STEP 8: Separate into two answers and combine terms.

EXAMPLE

 $\frac{5}{4}$

$2x^2 = -5x + 3$						
STEP 1:	$2x^{2} + 5x$	-3 = 0				
STEP 2:	$x^2 + \frac{5}{2}x$	$-\frac{3}{2}=0$				
STEP 3:	$x^2 + \frac{5}{2}x$	$=\frac{3}{2}$				
STEP 4:	$\frac{5}{2} * \frac{1}{2} =$	$\frac{5}{4}$;	$\left(\frac{5}{4}\right)^2$	$=\frac{25}{16}$		
	$x^{2} + \frac{5}{2}x - \frac$	$+\frac{25}{16} =$	$\frac{3}{2} + \frac{23}{10}$	5 5		
STEP 5:	$\left(x+\frac{5}{4}\right)^2$	=	$\frac{24}{16} + \frac{2}{1}$	$\frac{5}{6} =$	$\frac{49}{16}$	
STEP 6:	$x + \frac{5}{4}$	=	$\pm \frac{7}{4}$			
STEP 7:	Х	=	$\pm \frac{7}{4}$ -	$\frac{5}{4}$		
STEP 8		=	$+\frac{7}{4} - \frac{3}{4}$	$\frac{5}{4}$,	$-\frac{7}{4}$ -
		=	$\frac{2}{4}$,	$-\frac{12}{4}$
		x =	$\frac{1}{2}$,	- 3