Приложение 1

1.$4x^{2}+12\left|2х-1\right|+36=4х$;

 $4x^{2}-4х+1+12\left|2х-1\right|+36-1=0$;

 $\left|2х-1\right|^{2}+12\left|2х-1\right|+35=0;$

 $\left[\begin{array}{c}\left|2х-1\right|=-7;\\\left|2х-1\right|=-5;\end{array}\right.⇒∅$

Если конструкцию изменить, то

$4x^{2}-12\left|2х-1\right|+36=4х$;

 $4x^{2}-4х+1-12\left|2х-1\right|+36-1=0$;

 $\left|2х-1\right|^{2}-12\left|2х-1\right|+35=0;$

$$\left[\begin{array}{c}\left|2х-1\right|=7;\\\left|2х-1\right|=5;\end{array}\right.⇒\left[\begin{array}{c}2х-1=7;\\2х-1=-7;\\2х-1=5;\\2х-1=-5;\end{array}\right.⇒\left[\begin{array}{c}х=4;\\х=-3;\\х=3;\\х=-2.\end{array}\right.$$