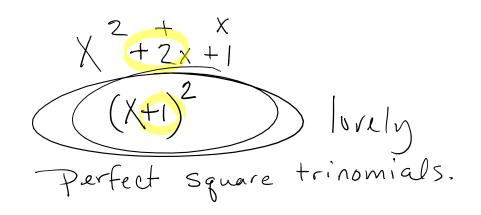
Turning Standard form into graphing using CTS complete the square Background: 2 + 2x (60/ desired

-12x + 36 - Standard Form

Background.

Factor
$$\chi^2$$
-10x+25 χ^2 -12x+36 $(\chi-5)(\chi-5)$ $(\chi-6)(\chi-6)^2$ $(\chi-6)^2$



Make it happen.

$$\gamma = \chi^2 - 10\chi + 25$$

$$\frac{\text{WORK}}{Y = X^2 - 10X}$$

$$\frac{+25^2 \text{want}}{425^2 \text{want}} + 2 \frac{\text{how}}{-25^2 \text{Pay}}$$

$$Y = (X-5)^2 - 23$$

$$\xi x$$
: $y = x^2 + 2x + 9$
 $+1$
 -1
 $+1$
 -1
 $+1$
 -1
 $+1$
 -1

$$y = \chi^{2} - 8\chi + 1$$

$$+ 16 - 16$$

$$+ 16 - 16$$

$$+ 16 - 16$$

$$+ 2 - 15$$

$$+ 2 - 15$$

$$+ 2 - 15$$

$$+ 2 - 15$$

$$y = \chi^{2} + 12\chi + 10$$

$$+3k$$

$$y = (\chi + k)^{2} - 4k$$

$$\frac{1}{1} = \frac{1}{1} \times \frac{1}$$

$$Y = X^2 + 20x + 14$$

$$x^{2} + 20x + 100 + 14_{-100}$$
 $y = (x + 10)^{2} - 86$