

Solving Using Box Method

Key
5/5/20

1) $4x^2 + 5x - 6 = 0$

$(4x-3)(x+2) = 0$

	$4x$	-3
x	$4x^2$	$-3x$
2	$8x$	-6

$$\begin{array}{r} \cancel{8} \quad \cancel{-3} \\ \quad \quad \quad \cancel{5} \end{array}$$

$$\begin{array}{r} -24 \\ \hline -24 \quad 1 \\ 24 \quad -1 \\ \hline -8 \quad 3 \end{array}$$

$(8 \quad -3) \rightarrow 5$

- 1) Draw X
- 2) a.c on top
- 3) b on bottom
- 4) List factors of a.c that add to b
- 5) Draw \square
- 6) Put each part of X in a quadrant
- 7) factor out GCF

Grouping

$4x^2 + 5x - 6 = 0$

$(4x^2 + 8x) - (3x + 6) = 0$

$4x(x+2) - 3(x+2) = 0$

$(x+2)(4x-3) = 0$