

5.) Factor $x^2 + 2x - 3$

$$\begin{array}{l}
 a = 1 \\
 b = 2 \\
 c = -3 \\
 \begin{array}{r}
 1 \dots 3 \\
 \dots -3 \\
 \hline
 3 \quad -3 \\
 \quad -1 \\
 \hline
 2
 \end{array} \\
 \hline
 (x+3)(x-1) \\
 -x+3x
 \end{array}$$

$$(x+3)(x-1)$$

6.) Factor $y^2 - y - 6$

$$\begin{array}{l}
 (y-3)(y+2) \\
 \hline
 y^2 - y - 6
 \end{array}$$

$$\begin{array}{l}
 a = 1 \\
 b = -1 \\
 c = -6 \\
 \begin{array}{r}
 \dots 6 \\
 \dots -6 \\
 \hline
 -3 \quad 2 \\
 \quad -1 \\
 \hline
 2
 \end{array} \\
 \hline
 (y-3)(y+2)
 \end{array}$$

7.) Factor $2x^2 + 3x + 1$

$a=2$
 $b=3$
 $c=1$

	$1x$	1
$2x$	$2x^2$	$2x$
1	$1x$	1

$(2x+1)(x+1)$

$$(2x+1)(x+1)$$