

$$1) \quad 7m^2 + 6m - 1$$

$m$	$7m^2$	$-1m$
$+1$	$7m$	$-1$

$$(7m-1)(m+1)$$

$$2) \quad 3k^2 - 10k + 7$$

	$3k^2$	$7k$
$-1$	$3k$	$7$

$$(3k-7)(k-1)$$

$$3) \quad 5x^2 - 36x - 81$$

	$5x^2$	$9x$
$-9$	$-45x$	$-81$

$$(x-9)(5x+9)$$

$$4) \quad 2x^2 - 9x - 81$$

	$2x^2$	$9x$
$-9$	$18x$	$-81$

$$(x-9)(2x+9)$$

$$5) \quad 3n^2 - 16n + 20$$

	$3n^2$	$-10n$
$-2$	$-6n$	$20$

$$(3n-10)(n-2)$$

$$6) \quad 2r^2 + 7r - 30$$

	$2r^2$	$-5r$
$6$	$12r$	$-30$

$$(2r-5)(r+6)$$

$$7) \quad 5k^2 + 8k + 80$$

Not factorable

$5k^2$	
	$80$

$$8) \quad 5x^2 - 14x + 8$$

	$5x^2$	$-4x$
$-2$	$-10x$	$8$

$$(5x-4)(x-2)$$

9)  $7p^2 - 20p + 12$

$p$	$7p^2$	$6p$
$-2$	$14p$	$12$

$(p-2)(7p-6)$

10)  $3v^2 + 14v - 49$

$v$	$3v^2$	$-7v$
$+7$	$21v$	$-49$

$(3v-7)(v+7)$

11)  $7x^2 - 26x - 45$

$x$	$7x^2$	$9x$
$-5$	$-35x$	$-45$

$(7x+9)(x-5)$

12)  $5p^2 - 52p + 20$

$p$	$5p^2$	$2p$
$-10$	$50p$	$20$

$(5p-2)(p-10)$

13)  $5x^2 - 43x + 24$

$x$	$5x^2$	$3x$
$-8$	$40x$	$24$

$(x-8)(5x-3)$

14)  $5x^2 + 26x + 24$

$x$	$5x^2$	$6x$
$4$	$20x$	$24$

$(x+4)(5x+6)$

15)  $3r^2 + 40r + 100$

$r$	$3r^2$	
$+10$		$100$

$(3r+10)(r+10)$

16)  $2x^2 - 3x - 5$

<del><math>x</math></del>	<del><math>2x^2</math></del>	<del><math>1x</math></del>
<del><math>-5</math></del>	<del><math>-6x</math></del>	<del><math>-5</math></del>

*oops*

$x$	$2x^2$	$-5x$
$+1$	$2x$	$-5$

$(2x-5)(x+1)$

$$17) 5p^2 + 19p + 12$$

	5p	4
p	5p <sup>2</sup>	4p
3	15p	12

$$(5p+4)(p+3)$$

$$18) 2m^2 + 3m - 27$$

	2m	9
m	2m <sup>2</sup>	9m
-3	-6m	-27

$$(m-3)(2m+9)$$

$$19) 3n^2 + 10n - 8$$

	3n	-2
n	3n <sup>2</sup>	-2n
4	12n	-8

$$(n+4)(3n-2)$$

$$20) 2a^2 + 7a - 7$$

	2a	7
a	2a <sup>2</sup>	7a
1	2a	-7

Not Factorable

$$21) 10n^2 - 21n - 49$$

	10n	7
n	10n <sup>2</sup>	7n
7	7n	-49

	5n	7
2n	10n <sup>2</sup>	14n
-7	-35n	-49

$$(2n-7)(5n+7)$$

$$22) 6x^2 + 41x + 70$$

	3x	10
2x	6x <sup>2</sup>	20x
7	21x	70

$$(3x+10)(2x+7)$$

$$23) 9x^2 + 9x - 40$$

	3x	-5
3x	9x <sup>2</sup>	-15x
8	24x	-40

$$(3x-5)(3x+8)$$

$$24) 8n^2 + 71n - 90$$

	8n	-1
n	8n <sup>2</sup>	-n
9	72n	-90

$$(8n-1)(n+9)$$