

Name : \_\_\_\_\_

## Factoring Polynomials - Box Method

Sheet 2

Factorize each polynomial using box method.

1)  $x^2 + 11x + 18$


2)  $x^2 - 2x - 24$


3)  $8x^2 - 30x + 7$


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5)  $4x^2 - x - 14$



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## Answer key

### Factoring Polynomials - Box Method

Factorize each polynomial using box method.

1)  $x^2 + 11x + 18$

	<b>x</b>	<b>2</b>
<b>x</b>	$x^2$	$2x$
<b>9</b>	$9x$	$18$

$(x + 2)$

2)  $x^2 - 2x - 24$

	<b>x</b>	<b>-6</b>
<b>x</b>	$x^2$	$-6x$
<b>4</b>	$4x$	$-24$

$(x + 4)(x - 6)$

3)  $8x^2 - 30x + 7$

	<b>4x</b>
<b>2x</b>	$8x^2$
<b>-7</b>	$-28x$

$(2x - 7)$

	<b>-3</b>
<b>x</b>	$x^2$
<b>6x</b>	$-3x$
<b>-21</b>	$-21$

$(x - 3)(x + 7)$

5)  $4x^2 - x - 14$

	<b>x</b>
<b>4x</b>	$4x^2$
<b>7</b>	$7x$
<b>-14</b>	$-14$

$(4x + 7)(x - 2)$

	<b>9</b>
<b>x</b>	$x^2$
<b>6</b>	$6x$
<b>54</b>	$54$

$(x + 9)(x + 6)$

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