

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

## Factoring Polynomials - Box Method

Sheet 1

Factorize each polynomial using box method.

1)  $x^2 - 6x + 9$


2)  $12x^2 + 11x - 56$


3)  $6x^2 + 19x + 10$


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5)  $x^2 + 3x - 18$



**Factoring Polynomials - Box Method**

Factorize each polynomial using box method.

1)  $x^2 - 6x + 9$

	<b>x</b>	<b>-3</b>
<b>x</b>	<b><math>x^2</math></b>	<b><math>-3x</math></b>
<b>-3</b>	<b><math>-3x</math></b>	<b>9</b>

$(x - 3)$

2)  $12x^2 + 11x - 56$

	<b>3x</b>	<b>8</b>
<b>4x</b>	<b><math>12x^2</math></b>	<b><math>32x</math></b>
<b>-7</b>	<b><math>-21x</math></b>	<b><math>-56</math></b>

$(3x + 8)(4x - 7)$

3)  $6x^2 + 19x + 10$

	<b>3x</b>
<b>2x</b>	<b><math>6x^2</math></b>
<b>5</b>	<b><math>15x</math></b>

$(3x + 2)$

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5)  $x^2 + 3x - 18$

	<b>x</b>
<b>x</b>	<b><math>x^2</math></b>
<b>6</b>	<b><math>6x</math></b>

$(x - 3)(x + 6)$

	<b>x</b>	<b>5</b>
<b>x</b>	<b><math>2x^2</math></b>	<b><math>5x</math></b>
<b>-6</b>	<b><math>-12x</math></b>	<b><math>-30</math></b>

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