Factoring Pt. 1

April 27, 2020

$$(x+2)(x+3) = x^2 + 3x + 2x + 6$$

$$(x+2)(x+3) = x^2 + 3x + 2x + 6$$

First

$$(x+2)(x+3) = x^2 + 3x + 2x + 6$$

First

Outside

$$(x+2)(x+3) = x^2 + 3x + 2x + 6$$

First

Outside

Inside

$$(x+2)(x+3) = x^2 + 3x + 2x + 6$$

First

Outside

Inside

Last

Factor the following polynomial $x^2 + 5x + 6$

Factor the following polynomial $x^2 + 5x + 6$

x

x

Factor the following polynomial

$x^2 + 5x + 6$

$x \qquad 2$

$x \qquad 3$

Factor the following polynomial

$x^2 + 5x + 6$

x 2

x 3

$3x + 2x = 5x$

Factor the following polynomial

$x^2 + 5x + 6$

x	2

x	3

$3x + 2x = 5x$

Factor the following polynomial

$x^2 + 5x + 6 = (x + 2)(x + 3)$

Factor the following polynomial

$12x^2 + 17x + 6$

Factor the following polynomial
$12x^2 + 17x + 6$

$12x$

Factor the following polynomial
$12x^2 + 17x + 6$

$12x$ 3
$1x$

Factor the following polynomial
$12x^2 + 17x + 6$

$12x \qquad 3$
$1x \qquad 2$
$12x \cdot 2 + 3 \cdot x = 27x$

$3x$

Factor the following polynomial
$12x^2 + 17x + 6$

$12x \qquad 3$
$1x \qquad 2$
$12x \cdot 2 + 3 \cdot x = 27x$

$3x \qquad 2$
$4x$

Factor the following polynomial
$12x^2 + 17x + 6$

$12x \qquad 3$
$1x \qquad 2$
$12x \cdot 2 + 3 \cdot x = 27x$

$3x \qquad 2$
$4x \qquad 3$
$3x \cdot 3 + 2 \cdot 4x = 17x$

Factor the following polynomial

$12x^2 + 17x + 6$

$3x$	2

$4x$	3

$(3x + 2)(4x + 3)$