

factorizing quadratics

Multiply pairs of factors from the first table to make the quadratics in the second table.

Hint: It is much easier to do this by factorizing the quadratics first!

The first pair is done for you.

$(x + 3)$	$(2x - 2)$	$(2x + 1)$	$(2x - 1)$
$(3x + 2)$	$(x + 3)$	$(2x - 1)$	$(x + 4)$
$(2x - 2)$	$(x - 1)$	$(x - 3)$	$(x + 4)$
$(2x + 1)$	$(x + 5)$	$(x - 3)$	$(2x - 3)$
$(x + 8)$	$(x - 7)$	$(x + 4)$	$(2x - 4)$
$(x + 2)$	$(x + 2)$	$2(x + 1)$	$(x - 2)$
$2(x - 2)$	$(3x - 3)$	$(x + 3)$	$(6x - 3)$
$(x - 5)$	$(x - 5)$	$(x + 3)$	$(x - 4)$
$(2x + 4)$	$(x - 1)$	$(x - 5)$	$(x - 2)$
$(2x + 3)$	$(2x - 5)$	$(3x + 1)$	$(x - 9)$
$(x - 3)$	4	$(x + 1)$	$(2x - 8)$

$(x + 3)$

$(x + 4)$

$x^2 + 7x + 12$	$2x^2 + 3x + 1$
$x^2 - 3x - 10$	$4x^2 - 1$
$x^2 + 5x + 6$	$2x^2 - 15x - 27$
$x^2 - 25$	$4x^2 + 2x - 12$
$x^2 + 4x - 32$	$4x^2 - 12x + 8$
$x^2 + 2x - 3$	$2x^2 - 4x - 6$
$x^2 + 8x + 16$	$24x - 12$
$x^2 - 7x + 10$	$4x^2 - 14x + 10$
$x^2 - 4x + 3$	$2(3x^2 - 4x - 4)$
$x^2 - 9x + 14$	$6x^2 - x - 1$
$x^2 - 9$	$6x^2 - 30x + 24$

answers

$(x + 3)$	$(x + 4)$
$(x + 2)$	$(x - 5)$
$(x + 3)$	$(x + 2)$
$(x - 5)$	$(x + 5)$
$(x - 4)$	$(x + 8)$
$(x - 1)$	$(x + 3)$
$(x + 4)$	$(x + 4)$
$(x - 5)$	$(x - 2)$
$(x - 1)$	$(x - 3)$
$(x - 7)$	$(x - 2)$
$(x + 3)$	$(x - 3)$

$x^2 + 7x + 12$	$2x^2 + 3x + 1$
$x^2 - 3x - 10$	$4x^2 - 1$
$x^2 + 5x + 6$	$2x^2 - 15x - 27$
$x^2 - 25$	$4x^2 + 2x - 12$
$x^2 + 4x - 32$	$4x^2 - 12x + 8$
$x^2 + 2x - 3$	$2x^2 - 4x - 6$
$x^2 + 8x + 16$	$24x - 12$
$x^2 - 7x + 10$	$4x^2 - 14x + 10$
$x^2 - 4x + 3$	$2(3x^2 - 4x - 4)$
$x^2 - 9x + 14$	$6x^2 - x - 1$
$x^2 - 9$	$6x^2 - 30x + 24$

$(2x + 1)$	$(x + 1)$
$(2x + 1)$	$(2x - 1)$
$(2x + 3)$	$(x - 9)$
$(2x - 3)$	$(2x + 4)$
$(2x - 2)$	$(2x - 4)$
$2(x + 1)$	$(x - 3)$
$(6x - 3)$	4
$(2x - 2)$	$(2x - 5)$
$2(x - 2)$	$(3x + 2)$
$(3x + 1)$	$(2x - 1)$
$(3x - 3)$	$(2x - 8)$