

Review: Bracket expansion

Expand and simplify the following expressions

$3(x + 2) + 5(x + 3)$	$3(x + 7) + 5(x + 6)$
$7(x + 3) + 2(x + 10)$	$3(2x + 5) + 3(3x + 1)$
$3(3x + 10) + 2(4x + 1)$	$8(5x + 2) + 3(3x + 7)$
$5(2x + 9) + 7(3x + 1)$	$8(2x + 4) + 9(2x + 8)$

$5(3x + 8) + 2(5x - 2)$	$7(3x + 9) + 4(2x - 3)$
$11(3x + 2) + 12(2x - 3)$	$8(5x + 9) + 3(2x - 20)$
$8(5x + 3) + 8(4 - 3x)$	$7(7 + 3x) + 2(3 - 4x)$

$6(3x + 2) - 4(x + 1)$	$8(4x + 12) - 4(3x + 2)$
$8(5x + 1) - 3(2x + 9)$	$7(4x + 9) - (2x + 2)$
$5(3x + 11) - 3(2x - 11)$	$4(3x - 8) - 3(2x - 9)$

Extension: find as many expressions as you can (similar to the ones above) which give an answer of:

- a)  $5x + 2$
- b)  $8x + 12$
- c)  $5x - 6$

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