

Simplifying Algebraic Expressions

COMBINING LIKE TERMS

$$4x - 2y + 5 + 6y - 9 + 2x$$

$$4x + (-2y) + 5 + 6y + (-9) + 2x$$

TERM $4x, -2y, 5, 6y, -9, 2x$

LIKE TERM $4x, 2x$ AND $-2y, 6y$ AND $5, -9$
alike

CONSTANTS $5, -9$

COEFFICIENTS $4, -2, 6, 2$

x	y	CONSTANTS
$4x$	$-2y$	5
$2x$	$6y$	-9
$4x + 2x$	$-2y + 6y$	
$6x$ AND $4y$ AND		-4
$6x + 4y + (-4)$		

$3x + 5 - 7x + 3$	
x	CONSTANTS
$3x$	$+5$
$-7x$	$+3$
$3x + (-7x)$	
$-4x + 8$	

$$5y - 2x + 9x - 8y$$

$$5y + (-2x) + 9x + (-8y)$$